



STIC Search Report

EIC 2600

STIC Database Tracking Number: 135516

TO: Julie Anne Watko

Location: PK2-4R13

Art Unit : 2653

Wednesday, February 16, 2005

Case Serial Number: 10/619658

From: Samir Patel

Location: EIC 2600

PK2-3C03

Phone: 306-0254

Samir.patel@uspto.gov

Search Notes

Dear Examiner

Please find attached the search results for 10/619,658. I have used the search strategy I emailed to you to edit. I have searched the standard Dialog files, IEEE, Proquest and the internet.

If you would like a re-focus please let me know.

Thank you

Samir Patel

(54)

Access DB# 1415284

Re/Ref

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name JUIC Anne Watkis Examiner #: 77602 Date: 2-16-05
 Art Unit: _____ Phone Number _____ Serial Number: 10619057
 Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: 03/18/02

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: <u>Patel Sami</u>	Sequence (#): _____	STN _____
Searcher Phone #: <u>306-0254</u>	AA Sequence (#): _____	Dialog <input checked="" type="checkbox"/>
Searcher Location: <u>PR2-3C08</u>	Structure (#): _____	Questel/Orbit _____
Date Searcher Picked Up: <u>8:30A.M / 02/16</u>	Bibliographic <input checked="" type="checkbox"/>	Dr.Link _____
Date Completed: <u>3:00P.M / 02/16</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>100</u>	Fulltext <input checked="" type="checkbox"/>	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Online Time: <u>12-0</u>	Other _____	Other (specify) _____



"WORLD'S LARGEST MANUFACTURER OF CUSTOM ELECTRIC VEHICLES FOR WORK AND PLAY!"

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Western Model 100

Custom Line

NEV Package Available

STANDARD FEATURES:

Adjustable driver seat
 CD player, 4 speakers & antenna
 Built in chest with hinged lid
 Chrome bag holders, tee holders & top supports
 Convertible rear seat for additional passengers
 Cup & ball holder assembly
 Custom carpet throughout
 Custom steering wheel with scorecard holder
 Custom trim and pinstripe
 Custom velour or vinyl seats
 Electric horn
 Electric locking storage compartment
 Electric Speed Controller (ESC)
 Energy meter
 Fully automatic charger
 Hardtop
 Headlights and tail lights
 Removable bag holders - stainless steel
 Sun curtain
 Tinted windshield
 T105 batteries (heavy duty)
 5 hp, motor
 Custom burl wood dash
 7 battery 42v system
 12v power point



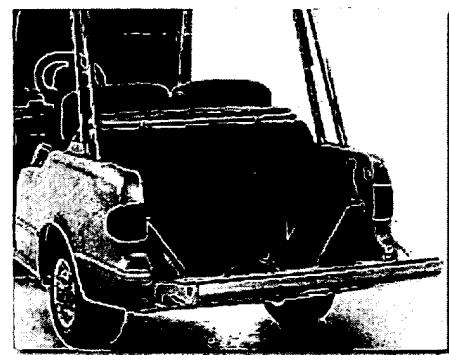
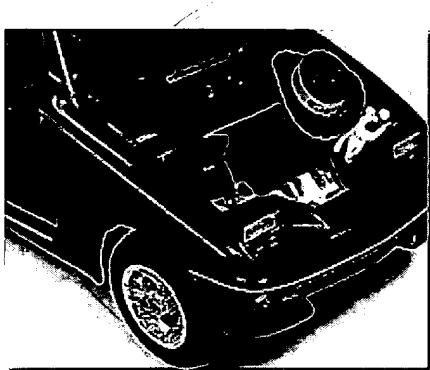
OPTIONS:

4 cycle, 11 HP gas engine
 Gas gauge
 7 HP fan cooled motor
 Pearl paint
 Custom paint
 Split windshield
 Brake lights
 T125 batteries
 7 battery, 42 volt system
 8 battery, 48 volt system
 Divot repair kit
 Water cooler
 Rear window shield
 Air top
 Alloy Wheels
 Rain enclosure
 Precision Drive System (36 volt)
 Convertible
 Color television
 Directional Signals
 12v power point
 Fringed Sun curtain
 Headliner
 Ball and club washer
 Choice of 27 color combinations
 Neighborhood Electric Vehicle (NEV)
 package
 Carbon Dash
 Seat logos
 Long top



Garage universal transmitter

Click here To Locate Your Nearest Dealer:



Optional back seat allows four to ride in comfort



Newly designed dash with am/fm stereo
and locking glove box

Front trunk storage is easy & convenient

Click here to download PDF Model 100 Brochure

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Enter Web Address: All

Adv. Search Compare Archive Pages

Searched for <http://westerngolfcar.com/pages/2002web/model100.htm>

10 Results

* denotes when site was updated.

Search Results for Jan 01, 1996 - Feb 16, 2005

1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
0 pages	4 pages	5 pages	1 pages	0 pages					
						<u>Jun 03, 2002</u> *	<u>Feb 07, 2003</u>	<u>Feb 02, 2004</u>	
						<u>Aug 02, 2002</u>	<u>Apr 10, 2003</u> *		
						<u>Oct 12, 2002</u>	<u>Jul 07, 2003</u>		
						<u>Dec 08, 2002</u>	<u>Oct 04, 2003</u> *		
							<u>Dec 04, 2003</u> *		

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VIN = 1413040083

Year = 1971

Body Style = Coupe

Usage = ebay listing

Auction amount = \$9,950 (Not sold, no bids)

When listed = June 2002

Description (on ebay)

Fully restored 1971 VW Karmann Ghia in awesome condition. New paint job (silver metallic color called Silver Stone, color code 3L) painted inside and out. New tires, new interior, new door panels, front and back. Interior fully reupholstered with genuine black leather on the two front seats and rear, feels so soft and nice to the touch. New black carpeting through out and new floor mats. New battery installed and new retractable seatbelts installed for the driver and passenger, makes buckling up a pleasure. I had the rear window tinted to preserve the interior of the vehicle (it cools the vehicle when parked in direct sun light.)

A BRAND NEW ENGINE INSTALLED. A new 1600 long block from BAP, current mileage approx. 900 miles on the car and counting... I am breaking in the engine nicely for the new owner. The engine is very strong, WOW! I had a new wood veneer dash installed. I had the Speedo calibrated and cleaned and brought to a zero mileage to go together with the new engine installed. Everything works, the interior dome light, the heater works great, the horn, the inside of the glove box has been replaced. This car is an eye catcher, I even had the sun visors replaced and the headliner.

I bought a bra for the Ghia and I had it custom cut and fitted for my Ghia (you see the average Ghia bra that you put on your Ghia does not give you access to the front trunk space without removing the bra first, with my custom made bra, you can have access to the trunk with the bra in place). You get the Ghia and the bra, if you win the auction.

I had new rubber installed around the windows and I had the rubber replaced around where the window rolls up and down. The Ghia comes with an Alpine stereo and a CD player.


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Databases selected: Multiple databases...

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Styling limits appeal of pricey 2000 Bonneville; [Final Edition]

Matt Nauman Knight Ridder News Service. Denver Post. Denver, Colo.: May 5, 2000. pg. I.01
[» Jump to full text](#)
Author(s): [Matt Nauman Knight Ridder News Service](#)
Document types: REVIEW

Section: Auto

Publication title: [Denver Post](#). Denver, Colo.: [May 5, 2000](#). pg. I.01

Source type: Newspaper

ProQuest document ID: 53529810

Text Word Count 912

Document URL: <http://proquest.umi.com/pqdweb?did=53529810&sid=1&Fmt=3&clientId=19649&RQT=309&VName=PQD>
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Abstract (Document Summary)

SANTA BARBARA, Calif. - Mary Boland, brand manager for Pontiac's Bonneville, quickly details the history of the car that made its debut as a 1957 convertible.

That's because Pontiac research shows that its buyers want things like ribbed body panels, prominent fog lights, rear spoilers and gee-gaw-laden, orange-glow instrument panels. Those types of things are the staples of the Pontiac car lineup, and they resulted in sales boosts in 1999 for the Sunfire, Firebird, Grand Am and Grand Prix.

Pontiac doesn't pull any punches. It calls the car's design 'dynamic and aggressive.' That's carspeak for the type of styling cues you might expect to find on a Mustang or a Camaro/Firebird. To me, this type of rakish, swoopy body looks forced on the Grand Am, just about perfect on the Grand Prix and totally out of place on the pricier Bonneville.

[Full Text \(912 words\)](#)

Copyright Denver Post May 5, 2000

SANTA BARBARA, Calif. - Mary Boland, brand manager for Pontiac's Bonneville, quickly details the history of the car that made its debut as a 1957 convertible.

It started out as a sporty car and then became an upscale car.

After 'the horror of the '70s,' it was one of the cornerstones of Pontiac's 'excitement' advertising in the '80s. And, in the '90s, it was the division's way of fighting pricey imports.

In short, the Bonneville is the perfect embodiment of the ups and downs of the U.S. auto industry over the last 50 years.

Now, for 2000, Pontiac has another all-new version of the Bonneville to sell. It remains:

The biggest car in the Pontiac lineup;

A very aggressively styled sedan;

An acquired taste.

That's because Pontiac research shows that its buyers want things like ribbed body panels, prominent fog lights, rear spoilers and gee-gaw-laden, orange-glow instrument panels. Those types of things are the staples of the Pontiac car lineup, and they resulted in sales boosts in 1999 for the Sunfire, Firebird, Grand Am and Grand Prix.

But they haven't worked as well for the Bonneville. Sales, as high as 92,672 in the 1994 model, year fell to around 45,000 in 1999.

Pontiac thinks improvements like a much stiffer body, a longer wheelbase and a wider track should help. Other features, such as a new Delco stereo system, the Stabilitrak stability control system, a tire-inflation monitor and side-impact air bags ought to make the new Bonneville stand out, too.

But, its styling - both exterior and interior - limits the appeal of this car.

Pontiac doesn't pull any punches. It calls the car's design 'dynamic and aggressive.' That's carspeak for the type of styling cues you might expect to find on a Mustang or a Camaro/Firebird. To me, this type of rakish, swoopy body looks forced on the Grand Am, just about perfect on the Grand Prix and totally out of place on the pricier Bonneville.

The interior is a perfect match for the go-go exterior. With contoured bucket seats and a busy instrument panel, the inside of the Bonneville is a polar opposite of subtle.

If you could ignore the design - and I think that would require a big leap - then the car performs well. Its interior is roomy and comfortable. The trunk, at 18 cubic feet, is large.

The available engines - a 205-horsepower version of the 3.8-liter V-6 on the SE and SLE and a super-charged, 240-horsepower version of the same motor on the SSEi - are strong and powerful. (The SSEi, for instance, easily beat a Chrysler 300M in acceleration and braking tests on the runway of a rural airport during a press introduction here.)

And, thanks to a more rigid body and 17-inch tires on the SSEi we tested on our home turf, the ride is much more sophisticated than it used to be.

The air-inflator kit that comes on SSEi models is one of the neatest features on new cars that I've seen in a while. It allows you to easily inflate an air mattress if you take the Bonneville on a camping trip. You'd expect it on an SUV or a minivan, but it's nice to find it here, too.

Perhaps this whole question of the Bonneville's image is a matter of perspective. Pontiac says a popularly equipped 2000 Bonneville SE model will sell for \$25,700. The mid-level SLE version will go for around \$30,000. And the upscale SSEi - the one I drove - will cost about \$34,000.

That's a lot of money for a car that looks like a boy racer's dream machine. And, again, that's Pontiac's target. About 70 percent of SLE and SSEi buyers will be men. They'll have a median age of 45 and an average household income of \$95,000 a year.

And, quite honestly, not many of them will live in California.

By not changing its stripes, the Bonneville remains a Heartland car. Out here, where \$35,000 puts you in BMW and ~~Volvo~~ sedans and Lexus and Mercedes-Benz sport-utilities, the Bonneville doesn't get on many shopping lists.

Pontiac marketing executives, who describe the SSEi as the 'bad boy' Bonneville, list the Infiniti I30t and the Lexus ES300 as competitors. They also say the new car will find 80,000 buyers in its first full year of sales.

To me, both of those statements are as bold as the Bonneville's design.

2000 PONTIAC SSEi

Base price: \$31,635

Price as tested (includes options and delivery charge): \$34,615

Test model: four-door sedan with a super-charged, 3.8-liter V-6 engine and a four-speed automatic transmission.

Curb weight: 3,790 pounds

Length: 202.6 inches

Turning circle (curb to curb): 40.5 feet

Standard features: Traction control; dual front air bags; side- impact air bags; four-wheel anti-lock brakes; Stabilitrak; remote keyless entry; alarm system; head's-up display; trunk accessory kit; tire-pressure monitor; rear spoiler; 17-inch aluminum wheels; leather bucket seats; leather-wrapped steering wheel with radio controls; AM/FM stereo with cassette and **CD players** and eight Bose speakers; dual zone air conditioning; cruise control

Options on test vehicle: Sunroof; chrome-plate wheels; 12-disc, trunk-mounted CD changer; heated **front** seats

EPA figures: 18 mpg (city), 27 mpg (highway)

[Illustration]

PHOTO:  Gannett Photo The new Pontiac Bonneville SE and SLE have 205- horsepower, 3.8-liter V-6 engines; the pricier SSEi has a 240- horsepower version of the same motor. The 2000 SE model will sell for \$25,700; the mid-level SLE will go for around \$30,000, and the SSEi will cost about \$34,000.

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File 483:Newspaper Abs Daily 1986-2005/Feb 14
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Set	Items	Description
S1	805	CONVERTIBL???(5N) (VEHICLE?? OR AUTOMOBI?? OR AUTO? ? OR CAR?? OR TRUCK?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S2	117	FRONT??(3N)TRUNK??
S3	43425	(CD OR DISK?? OR DISC??) (3N) (PLAYER?? OR DRIVE?? OR RECORDER??) OR CDPLAYER??
S4	0	S3 (7N)DASH (3N)BOARD??
S5	3058	DASH (3N)BOARD?? OR DASHBOARD??
S6	1974	S3 (5N) (BUILTIN OR INBUILT OR IN(2N)BUILT?? OR EMBED? OR INTEGRATE? OR ATTACH? OR JOIN? OR CONNECT???? OR COMMON? OR UNITED OR MOUNT????)
S7	709	SLOT(7N) (CD?? OR DISK?? OR DISC??)
S8	0	S1 AND S2 AND S3 AND S5 AND S6 AND S7
S9	0	S1 AND S2
S10	360	FRONT??(5N)STORAG???
S11	0	S1 AND S10
S12	0	S2 AND S3
S13	5	S5 AND S6
S14	5	RD (unique items)
S15	0	S14 AND S1
S16	0	S3 AND S4
S17	1	S7 AND S5
S18	0	S17 AND S1
S19	1	S17 NOT S14

- 14/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

02063432 E.I. Monthly No: EIM8601-000492
Title: **COMPACT DISC PLAYER FOR AUTOMOTIVE USE.**
Author: Matsumura, T.
Corporate Source: Matsushita Communication Industrial Co, Jpn
Conference Title: Proceedings - International Congress on Transportation
Electronics, Convergence 84.
Conference Location: Dearborn, MI, USA Conference Date: 19841022
E.I. Conference No.: 06979
Source: Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent
(Cat n 84CH1988-5), Piscataway, NJ, USA p V. 5-V. 8
Publication Year: 1984
Language: English

...Abstract: compact disc (CD) player for automotive use must be small enough for installation in the **dashboard** ; must be able to withstand shocks, vibrations, and a wide range of temperatures; and must...

...the optical pick-up, deck mechanism, and servo-control circuit are important factors. A car- **mounted** **CD player** is described. The optical pick-up and spindle motor are newly developed. The deck mechanism...

14/3,K/2 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

03782426
CAR CD AND CHANGERS TO BE BIG CHRISTMAS SELLER
US - CAR CD AND CHANGERS TO BE BIG CHRISTMAS SELLER
This Week In Consumer Electronics (TWE) 21 September 1990 p16-17
ISSN: 0892-7278

... in the US believe the number one seller in the 1990 Christmas market will be **dashboard** - **mounted** **CD players** and car-boot **CD** changer units. Both have been selling well in the last five to six months and...

14/3,K/3 (Item 1 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily
(c) 2005 ProQuest Info&Learning. All rts. reserv.

07336944 SUPPLIER NUMBER: 374462261
PhatNoise Brings Digital Music to Cars, But We're Not There Yet
Mossberg, Walter S
Wall Street Journal, p B1
Jul 24, 2003
ISSN: 0099-9660 NEWSPAPER CODE: WSJ
DOCUMENT TYPE: Product Review-Comparative; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: a capacious CD changer. So, there's no need to rip out your current radio/ **CD player** or to **attach** a new gadget to the **dashboard** . To scroll through the music on my test Volkswagen, I had to first press a ...

14/3,K/4 (Item 2 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily
(c) 2005 ProQuest Info&Learning. All rts. reserv.

07144879 SUPPLIER NUMBER: 277757081
Online: Whats new: International Consumer Electronics Show: The Brits make waves
Norris, Ashley
Guardian, p ONLINE.6
Jan 16, 2003
ISSN: 0261-3077 NEWSPAPER CODE: MG
DOCUMENT TYPE: Feature; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: MP3 music. No clues as to a price or UK launch date.
Billed as the **dashboard** for the digital home, the Philips i- Pronto is one of the most sophisticated remote...

...can increase this to 40GB for an extra pounds 50) which stores music from its **integrated CD player** in either **CD** (PCM) or MP3 quality.

14/3,K/5 (Item 3 from file: 483)
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06781298 SUPPLIER NUMBER: 110002801
An Economy Car Rich With Style
Brown, Warren
Washington Post, p N.01
Mar 3, 2002
ISSN: 0190-8286 NEWSPAPER CODE: TWP
DOCUMENT TYPE: Product Review-Favorable; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: conditioning, a remote keyless entry system, a tilt and telescoping steering wheel, and a six- **disc** , **dashboard - mounted CD player** . That means the ZX5 offers more than many consumers would expect to find in an...

19/3,K/1 (Item 1 from file: 483)
DIALOG(R)File 483:Newspaper Abs Daily
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06221831 SUPPLIER NUMBER: 64539938
`TELEMATICS' HELP MOTORISTS NAVIGATE THE HIGHWAY OR SURF THE NET
Morris, Jerry
Boston Globe, p J5
Nov 5, 2000
ISSN: 0743-1791 NEWSPAPER CODE: BOST
DOCUMENT TYPE: SEC; Newspaper article
LANGUAGE: English RECORD TYPE: ABSTRACT

...ABSTRACT: you don't have to know anything about it, just push a button on the **dashboard** and you are connected to an operator through a hands-free cell phone. The driver...

...Acura, and Volkswagen, now have a single-changer CD in some models. Just feed one **CD** after another into one **slot** for hours of music, and in most cases, without leaving the driver's seat, or...

File 63:Transport Res(TRIS) 1970-2005/
(c) fmt only 2005 Dialog Corp.

Set	Items	Description
S1	30	CONVERTIBL???(5N) (VEHICLE?? OR AUTOMOBI??? OR AUTO? ? OR CAR?? OR TRUCK?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S2	1	FRONT??(3N)TRUNK??
S3	97	(CD OR DISK?? OR DISC??)(3N) (PLAYER?? OR DRIVE?? OR RECORDER??) OR CDPLAYER??
S4	0	S3 (7N)DASH(3N)BOARD??
S5	389	DASH(3N)BOARD?? OR DASHBOARD??
S6	3	S3 (5N) (BUILTIN OR INBUILT OR IN(2N)BUILT?? OR EMBED? OR INTEGRA? OR ATTACH? OR JOIN? OR CONNECT???? OR COMMON? OR UNITED OR MOUNT???)
S7	0	S1 AND S2 AND S3 AND S5 AND S6
S8	0	S1 AND S2
S9	0	S2 AND S3
S10	0	S1 AND S6
S11	3	RD S6 (unique items)
S12	3	S11 NOT S2
S13	6	FRONT??(5N)STORAG???
S14	0	S13 AND (S1 OR S3)

2/3,K/1

DIALOG(R)File 63:Transport Res(TRIS)
(c) fmt only 2005 Dialog Corp. All rts. reserv.

00263919 DA

TITLE: ENERGY, ALUMINUM AND THE AUTOMOBILE

AUTHOR(S): Cochran, CN

CORPORATE SOURCE: Aluminum Company of America, Alcoa Technical Center,
Alcoa Center , PA, 15069,

Pag: 3 pp

SUPPLEMENTAL NOTES: Synopsis of a study published in the June 1973 issue of
Automotive Engineering, under the title "Aluminum-Villain or Hero in
the Energy Crisis."

PUBLICATION DATE: 19730600 PUBLICATION YEAR: 1973

LANGUAGE: English SUBFILE: UMTRIS; HRIS (U; H 7501)

...ABSTRACT: Using aluminum instead of steel in parts of an automobile that
carry less load (hood, **trunk** , lid, doors, **front** fender etc.) would
cut down the average weight of a car from 3,600 lb...

12/3,K/1

DIALOG(R)File 63:Transport Res(TRIS)
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00959167 DA

TITLE: HARD DRIVES

AUTHOR(S): TERRY COSTLOW.

JOURNAL: AUTOMOTIVE ENGINEERING,

SUPPLEMENTAL NOTES: AUTOMOTIVE ENGINEERING, V. 1012, NO. 7 (JULY 2004), P. 46-49: ILL.

PUBLICATION DATE: 20040700 PUBLICATION YEAR: 2004

LANGUAGE: ENGLISH SUBFILE: TLIB (L)

DATA SOURCE: NORTHWESTERN UNIVERSITY TRANSPORTATION LIBRARY

ABSTRACT: SUBTITLE: DRIVEN BY THE INSATIABLE DEMAND FOR MORE USABLE
NAVIGATION INFORMATION AND ENTERTAINMENT CONTENT, AUTOMOTIVE **DISK**
DRIVES WILL BECOME **COMMONPLACE** ONLY AFTER COST AND OTHER ISSUES ARE
OVERCOME, EXPERTS PREDICT.

12/3,K/2

DIALOG(R)File 63:Transport Res(TRIS)
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00462097 DA

**TITLE: THE ELECTRICAL EQUIPMENT OF THE NEW CLASS 480 RAILCARS FOR THE
BERLIN S-BAHN**

AUTHOR(S): Falk, P; Sauer, H

CORPORATE SOURCE: Hestra-Verlag, Holzhofallee 33, Postfach 4244, 6100
Darmstadt 1, West Germany

JOURNAL: Eisenbahntechnische Rundschau Vol: 35 Issue Number: 9 Pag: pp
607-617

PUBLICATION DATE: 19860900 PUBLICATION YEAR: 1986

LANGUAGE: German SUBFILE: UMTRIS (U 8602)

AVAILABILITY: Hestra-Verlag; Holzhofallee 33, Postfach 4244 ; 6100
Darmstadt 1 ; West Germany

DATA SOURCE: British Railways

...ABSTRACT: drive equipments in the current-operated frequency converter
system. The drive consists of a transverse **mounted** fully cushioned
motor with quill **drive**, **disc** clutch and spur gear. The likewise
redundant auxiliary drive equipments are fed through static converters
...

12/3,K/3

DIALOG(R)File 63:Transport Res(TRIS)
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00378293 DA

TITLE: GETTING RID OF THE GEARBOX

CORPORATE SOURCE: Design Council, 28 Haymarket, London SW1Y 4SU, England
JOURNAL: Engineering Pag: pp 285-287

PUBLICATION DATE: 19830400 PUBLICATION YEAR: 1983

LANGUAGE: English SUBFILE: HRIS; IRRD (H 8401; I)

SOURCE ACCESSION NUMBER: IRRD 269329

IRRD DOCUMENT NUMBER: IRRD 269329

ISSN: 00137782

FIGURES: 8 Fig.

DATA SOURCE: Transport and Road Research Laboratory

...ABSTRACT: on a positive mechanical drive for commercial vehicle applications. The variator unit consists of a **driven** rotor comprising two **discs** on a **common** shaft which in turn **drives** a third **disc** located between them and through which their shaft passes but does not touch. Each input...

File 344:Chinese Patents Abs Aug 1985-2004/May
(c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Oct (Updated 050208)
(c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200510
(c) 2005 Thomson Derwent

Set	Items	Description
S1	1658	CONVERTIBL???(5N) (VEHICLE?? OR AUTOMOBI??? OR AUTO? ? OR CAR?? OR TRUCK?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S2	611	FRONT??(3N)TRUNK??
S3	170341	(CD OR DISK?? OR DISC???) (3N) (PLAYER?? OR DRIVE?? OR RECORDER??) OR CDPLAYER??
S4	6	S3 (7N)DASH(3N)BOARD??
S5	8600	DASH(3N)BOARD?? OR DASHBOARD??
S6	9211	S3 (5N) (BUILTIN OR INBUILT OR IN(2N)BUILT?? OR EMBED? OR INTEGR? OR ATTACH? OR JOIN? OR CONNECT???? OR COMMON? OR UNITED OR MOUNT???)
S7	4817	SLOT(7N) (CD?? OR DISK?? OR DISC??)
S8	0	S1 AND S2 AND S5 AND S6 AND S7
S9	2	S1 AND S2
S10	0	S9 AND S3
S11	5310	FRONT???(5N)STORAG???
S12	7	S1 AND S11
S13	0	S12 AND S3
S14	7	S12 NOT S9
S15	0	S1 AND S6
S16	10	S2 AND S3
S17	10	S16 NOT (S9 OR S12)
S18	0	S2 AND S6
S19	0	S1 AND S7
S20	0	S2 AND S7
S21	10	IDPAT S17 (sorted in duplicate/non-duplicate order)
S22	10	IDPAT S17 (primary/non-duplicate records only)
S23	4	S11 AND S6
S24	4	S23 NOT (S21 OR S9 OR S12)
S25	1	S24 NOT (CPU OR COMPUTER?? OR FLOPPY??)
S26	1650	PORTABLE??(5N)S3
S27	0	S26 AND S1

9/3,K/1 (Item 1 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

07726932 **Image available**
ROOF OPENING/CLOSING DEVICE FOR VEHICLE

PUB. NO.: 2003-220833 [JP 2003220833 A]
PUBLISHED: August 05, 2003 (20030805)
INVENTOR(s): KATO AKIHISA
HAYASHI KENICHIRO
APPLICANT(s): AISIN SEIKI CO LTD
APPL. NO.: 2002-022546 [JP 200222546]
FILED: January 30, 2002 (20020130)

ABSTRACT

... comprises miniaturized mechanisms for moving a roof panel, trunk lid, and the like of the **convertible** vehicle .

SOLUTION: The opening/closing device for the vehicle comprises a link mechanism 8 having a...

... shifting the selective link means 81 to the lower side locked state to make the **front** end of the **trunk** lid 6 unlocked and making operate a back window 3 and the trunk lid 6...

9/3,K/2 (Item 2 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

07133936 **Image available**
TRUNK SEAL STRUCTURE OF **CONVERTIBLE** VEHICLE

PUB. NO.: 2002-002307 [JP 2002002307 A]
PUBLISHED: January 09, 2002 (20020109)
INVENTOR(s): TAKASHIMA HIDETO
APPLICANT(s): KINUGAWA RUBBER IND CO LTD
APPL. NO.: 2000-192462 [JP 2000192462]
FILED: June 27, 2000 (20000627)

TRUNK SEAL STRUCTURE OF **CONVERTIBLE** VEHICLE

ABSTRACT

...SOLVED: To prevent the entry of trash and dust from a parting part at a **front** end of a **trunk** lid and minimize the drop of trash and dust into a trunk room caused by...

...sponge rubber to prevent the entry of trash and dust through a clearance at the **front** end of the **trunk** lid 23 by the parting seal 32.

COPYRIGHT: (C)2002,JPO
?

14/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015115248 **Image available**
WPI Acc No: 2003-175768/200318
XRXPX Acc No: N03-138385

Fuselage construction for a convertible car /airplane comprises a fuselage having a front canard tail, a rear wing, storage space for the fold-away wing and a four-point landing gear

Patent Assignee: ALLENBACH P (ALLE-I)

Inventor: ALLENBACH P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CH 692977	A5	20030115	CH 972563	A	19971106	200318 B

Priority Applications (No Type Date): CH 972563 A 19971106

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CH 692977	A5	10		B64C-037/00	

Fuselage construction for a convertible car /airplane comprises a fuselage having a front canard tail, a rear wing, storage space for the fold-away wing and a four-point landing gear

Abstract (Basic):

... Fuselage construction, especially for a **convertible car** /airplane, comprises a fuselage made predominantly of a rigid material and having a rectangular base...
... For a **convertible car** /airplane...

14/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014439732 **Image available**
WPI Acc No: 2002-260435/200231
XRXPX Acc No: N02-202080

Convertible vehicle roof has front and rear parts, the front part being supported on a swivel bearing device displaceably mounted on a guide fixed on the vehicle, and the rear part forming a roll-over protection structure

Patent Assignee: WEBASTO VEHICLE SYSTEMS INT GMBH (WBAI); SCHUTT T (SCHU-I)

Inventor: SCHUETT T; SCHUTT T

Number of Countries: 004 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2364281	A	20020123	GB 200116381	A	20010704	200231 B
DE 10032378	A1	20020131	DE 1032378	A	20000706	200231
JP 2002046473	A	20020212	JP 2001202682	A	20010703	200231
US 20020024231	A1	20020228	US 2001899568	A	20010706	200231
US 6431636	B1	20020813	US 2001899568	A	20010706	200255
DE 10032378	C2	20021024	DE 1032378	A	20000706	200272
GB 2364281	B	20031105	GB 200116381	A	20010704	200377

Priority Applications (No Type Date): DE 1032378 A 20000706

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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GB 2364281 A 41 B60J-007/02
DE 10032378 A1 B60J-007/08
JP 2002046473 A 14 B60J-007/12
US 20020024231 A1 B60J-007/08
US 6431636 B1 B60J-007/00
DE 10032378 C2 B60J-007/08
GB 2364281 B B60J-007/02

Convertible vehicle roof has front and rear parts, the front part being supported on a swivel bearing...

Abstract (Basic):

... The convertible vehicle roof (1) has front/rear roof parts (3,4) which are mounted movably on the vehicle body and which can be put away into a roof storage space (20). The front part (3) is supported by a swivel-bearing device (9,13) which is mounted displaceably...

...the front roof part, moves along the guide (16) and in the process lowers the front part into the storage space (20).

... In convertible top type vehicles .

14/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013160973 **Image available**
WPI Acc No: 2000-332846/200029
XRPX Acc No: N00-250745

Storage structure for package tray used in convertible vehicle
Patent Assignee: AISIN SEIKI KK (AISE); TOYOTA JIDOSHA KK (TOYT)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000103288	A	20000411	JP 98275479	A	1998092	200029 B

Priority Applications (No Type Date): JP 98275479 A 19980929

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000103288	A	7	B60R-005/04	

Storage structure for package tray used in convertible vehicle

Abstract (Basic):

... The storage structure fixes the front package tray section (18) of a package tray (16) to a car body, in which...
... For package tray used in convertible vehicle .

14/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012222470 **Image available**
WPI Acc No: 1999-028576/199903
XRPX Acc No: N99-021924

Sun visor for motor vehicle e.g. convertible - has second fastener,

provided at front surface of main visor body, which engages with corresponding fastener at auxiliary visor body to attached auxiliary visor body at storage position

Patent Assignee: KAWANISHI KOGYO KK (KAWA-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10291417	A	19981104	JP 97115014	A	19970418	199903 B

Priority Applications (No Type Date): JP 97115014 A 19970418

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10291417	A	5	B60J-003/02	

Sun visor for motor vehicle e.g. convertible -

...Abstract (Basic): 17) at its front surface. An auxiliary visor body (5) is attached, at use and storage position, to the front surface of the visor body...

14/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

011932869 **Image available**

WPI Acc No: 1998-349779/199831

XRPX Acc No: N98-273005

Collapsible hood for convertible motor vehicle - consists of two independently operated hood sections, deposited in storage box to permit different open roof positions

Patent Assignee: DAIMLER-BENZ AG (DAIM)

Inventor: SCHULER E

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19706417	C1	19980709	DE 1006417	A	19970219	199831 B
FR 2759639	A1	19980821	FR 982011	A	19980219	199839
IT 1298911	B	20000207	IT 98RM96	A	19980218	200176

Priority Applications (No Type Date): DE 1006417 A 19970219

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 19706417	C1	17	B60J-007/12	

FR 2759639	A1	B60J-007/12
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IT 1298911	B	B60J-000/00
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Collapsible hood for convertible motor vehicle -

...Abstract (Basic): be moved into targa, landaulette, or completely open positions. Both sections are stacked into a storage box (6), with the front section being deposited in front of the rear section...

14/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

011482469 **Image available**

WPI Acc No: 1997-460374/199743

XRPX Acc No: N97-383327

Convertible vehicle roof storage compartment covering arrangement - comprises first cover over part of storage compartment behind rear wall of roof in its erected position and second cover over remainder of storage compartment

Patent Assignee: DAIMLER-BENZ AG (DAIM); MERCEDES-BENZ AG (DAIM); DAIMLERCHRYSLER AG (DAIM)

Inventor: HAHN G; HARTING A; HASSELGRUBER A; SCHRADER J; SCHULER E; HASSELGRUBER A

Number of Countries: 006 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2311756	A	19971008	GB 976570	A	19970401	199743	B
DE 19613917	A1	19971009	DE 1013917	A	19960406	199746	
FR 2747077	A1	19971010	FR 974131	A	19970404	199748	
DE 19613917	C2	19980115	DE 1013917	A	19960406	199806	
GB 2311756	B	19980408	GB 976570	A	19970401	199816	
JP 10058984	A	19980303	JP 97120040	A	19970404	199819	
US 6010178	A	20000104	US 97834929	A	19970407	200008	
JP 3013160	B2	20000228	JP 97120040	A	19970404	200015	
IT 1291868	B	19990121	IT 97RM183	A	19970328	200146	

Priority Applications (No Type Date): DE 1013917 A 19960406

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2311756	A	18	B60J-007/20		
DE 19613917	A1	10	B60J-007/20		
FR 2747077	A1		B60J-007/20		
DE 19613917	C2	10	B60J-007/20		
GB 2311756	B		B60J-007/20		
JP 10058984	A	7	B60J-007/08		
US 6010178	A		B60J-007/00		
JP 3013160	B2	7	B60J-007/08	Previous Publ. patent JP 10058984	
IT 1291868	B		B60J-000/00		

Convertible vehicle roof storage compartment covering arrangement...

...Abstract (Basic): of use position for the front panel may be beneath the second panel, in the storage compartment (12), and the front and rear panels may be hingedly connected. The covering arrangement may be controlled by bar...

...Abstract (Equivalent): of use position for the front panel may be beneath the second panel, in the storage compartment, and the front and rear panels may be hingedly connected. The covering arrangement may be controlled by bar...

14/3,K/7 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

007443762 **Image available**

WPI Acc No: 1988-077696/198811

XRPX Acc No: N88-058948

Convertible top for pick-up truck - has front and rear shells with collapsible canopy and rear shell movable on rails

Patent Assignee: TRANSMATIC INC (TRAN-N)

Inventor: FIELDS D G

Number of Countries: 017 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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WO 8801577	A	19880310	WO 87US2194	A	19870901	198811	B
AU 8779146	A	19880324				198825	
US 4789196	A	19881206	US 86902761	A	19860902	198851	
CA 1294648	C	19920121				199210	

Priority Applications (No Type Date): US 86902761 A 19860902

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 8801577 A E 25

Designated States (National): AU DK FI JP NO

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

US 4789196 A 9

Convertible top for pick-up truck -

...Abstract (Equivalent): The **convertible** top for pick-up **trucks** has front and rear shells with a collapsible canopy between and the rear shell being...

...retracted position and a different latch keeper on the rail in the extended position. A **storage** cabinet is disposed beneath the **front** shell and supported on the truck bed and is accessible through the cab window and...

17/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05972347 **Image available**
INFORMATION RECORDING MEDIUM

PUB. NO.: 10-255447 [JP 10255447 A]
PUBLISHED: September 25, 1998 (19980925)
INVENTOR(s): KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO.: 09-241369 [JP 97241369]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a preceding **front** part **trunk** scene A,
a plurality of branch scenes B0 to B3 and a subsequent rear part...

17/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05972346 **Image available**
INFORMATION RECORDING MEDIUM

PUB. NO.: 10-255446 [JP 10255446 A]
PUBLISHED: September 25, 1998 (19980925)
INVENTOR(s): KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO.: 09-241368 [JP 97241368]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a preceding **front** part **trunk** scene A,
a plurality of branch scenes B0 to B3 and a subsequent rear part...

17/3,K/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05972345 **Image available**
INFORMATION RECORDING MEDIUM

PUB. NO.: 10-255445 [JP 10255445 A]
PUBLISHED: September 25, 1998 (19980925)

INVENTOR(s) : KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s) : TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO. : 09-241367 [JP 97241367]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a providing **front** part **trunk** scene A,
a plurality of branch scenes B0 to B3 and a subsequent **rear** part...

17/3,K/4 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05972344 **Image available**
INFORMATION RECORDING MEDIUM

PUB. NO. : 10-255444 [JP 10255444 A]
PUBLISHED: September 25, 1998 (19980925)
INVENTOR(s) : KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s) : TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO. : 09-241366 [JP 97241366]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a preceding **front** part **trunk** scene A,
a plurality of branch scenes B0 to B3 and a subsequent **rear** part...

17/3,K/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05972343 **Image available**
INFORMATION RECORDING MEDIUM

PUB. NO. : 10-255443 [JP 10255443 A]
PUBLISHED: September 25, 1998 (19980925)
INVENTOR(s) : KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s) : TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO. : 09-083931 [JP 9783931]
FILED: April 02, 1997 (19970402)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a preceding **front** part **trunk** scene A, a plurality branch scenes B0 to B3 and a subsequent **rear** part **trunk**...

17/3,K/6 (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2005 JPO & JAPIO. All rts. reserv.

05809059 **Image available**
INFORMATION RECORDING METHOD AND APPARATUS

PUB. NO.: 10-092159 [JP 10092159 A]
PUBLISHED: April 10, 1998 (19980410)
INVENTOR(s): KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO.: 09-241273 [JP 97241273]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a preceding **front** **trunk** scene A, a plurality of branch scenes B0 to B3 and a successive **rear** **trunk**...

17/3,K/7 (Item 7 from file: 347)
DIALOG(R)File 347:JAPIO
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05809058 **Image available**
DISC REPRODUCING APPARATUS

PUB. NO.: 10-092158 [JP 10092158 A]
PUBLISHED: April 10, 1998 (19980410)
INVENTOR(s): KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO.: 09-241272 [JP 97241272]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: A video program has a preceding **front** **trunk** scene A, a plurality of branch scenes B0 to B3 and a successive **rear** **trunk**...

17/3,K/8 (Item 8 from file: 347)
DIALOG(R) File 347:JAPIO
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05809057 **Image available**
DISC REPRODUCING APPARATUS

PUB. NO.: 10-092157 [JP 10092157 A]
PUBLISHED: April 10, 1998 (19980410)
INVENTOR(s): KANESHIGE TOSHIHIKO
TOMIDOKORO SHIGERU
KOJIMA TADASHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP
(Japan)
TOSHIBA AVE CORP [485538] (A Japanese Company or Corporation)
, JP (Japan)
APPL. NO.: 09-241271 [JP 97241271]
FILED: September 05, 1997 (19970905)

...JAPIO KEYWORD:Video Disk Recorders , VDR)

ABSTRACT

...SOLUTION: An video program has a preceding **front trunk** scene A, a plurality of branch scenes B0 to B3 and successive rear trunk scene...

17/3,K/9 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012478408 **Image available**
WPI Acc No: 1999-284516/199924
XRPX Acc No: N99-213518

~~Shield excavator for tunnel construction - uses front and rear trunks for digging small diameter tunnel and set of detachable front and rear trunks for digging large diameter tunnel~~
Patent Assignee: KAWASAKI HEAVY IND LTD (KAWJ); NISHIMATSU CONSTRUCTION CO LTD (NISH-N); YAMADA N (YAMA-I)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11093565	A	19990406	JP 97270535	A	19970915	199924 B
JP 3099949	B2	20001016	JP 97270535	A	19970915	200054

Priority Applications (No Type Date): JP 97270535 A 19970915

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11093565	A	12		E21D-009/06	
JP 3099949	B2	12		E21D-009/06	Previous Publ. patent JP 11093565

... uses front and rear trunks for digging small diameter tunnel and set of detachable front and rear trunks for digging large diameter tunnel

...Abstract (Basic): NOVELTY - A center folder (4) connects **front trunks** (2,50) and rear trunks (3,51) bendably. A radially expandable cutter disc is **driven** by a motor (8). The excavator (13) is provided with shield jacks. A small and large diameter tunnel is dug in diameter reduced and expanded condition respectively. DETAILED DESCRIPTION - **Front** and rear **trunks** (50,51) are fixed detachably outside the

front trunk (2) and to ring (17) of rear trunk (3) respectively. The front and rear trunks are connected bendably by a center folder (4). An eccentric fitting is connected to each...

...to diameter expanded condition and vice-versa by enabling easy insertion or removal of second front and rear trunks. DESCRIPTION OF DRAWING(S) - The diagram shows a sectional view of a shield excavator in diameter expanded condition. (1B) Shield excavator; (2,50) Front trunks ; (3,51) Rear trunks; (4) Center folder; (5) Cutter disc; (8) Motor; (12) Shield Jack...

17/3,K/10 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

012358066 **Image available**
WPI Acc No: 1999-164173/199914
XRPX Acc No: N99-120143

Shield excavator for twin step tunneling - in which large shield excavator unites with small shield excavator, during large diameter tunnel excavation, due to center-fold mechanism
Patent Assignee: KAWASAKI HEAVY IND LTD (KAWJ)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11022368	A	19990126	JP 97175456	A	19970701	199914 B

Priority Applications (No Type Date): JP 97175456 A 19970701

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11022368	A	7		E21D-009/06	

...Abstract (Basic): center folding mechanism is arranged inside the large shield excavator. The folding is effected between front trunks (7,12) and back trunks (9,14) of the small and large diameter excavators. A...

...transmits reaction force of a cutter disk (D) to the small diameter excavator. The cutter disk is driven by a drive unit installed in the small diameter excavator. The rotation reaction force of the cutter disk is supported by rolling stopper (T) provided between front and back trunk of the small diameter excavator...

...DESCRIPTION OF DRAWING(S) - The drawing shows a sectional view of shield excavator. (7,12) Front trunks ; (9,14) Back trunks; (11) Large shield folding jack; (16) Small shield folding jack; (D...

25/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015710112 **Image available**
WPI Acc No: 2003-772312/200373
XRPX Acc No: N03-618786

Front panel of vehicle- mounted electronic device e.g. compact disk player , has operation button which pushes switch knob to pull movable nose from opening, when it is in deep insertion state

Patent Assignee: ALPINE KK (ALPN)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003242761	A	20030829	JP 200234218	A	20020212	200373 B

Priority Applications (No Type Date): JP 200234218 A 20020212

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003242761	A	6		G11B-033/02	

Front panel of vehicle- mounted electronic device e.g. compact disk player , has operation button which pushes switch knob to pull movable nose from opening, when it...

Abstract (Basic):

... 9) is arranged at surface (3a) of a movable nose (3) which is provided in **storage** opening (4) of **front** panel (2). In the deep insertion state of the nose in the opening, an operation...

File 348:EUROPEAN PATENTS 1978-2005/Feb W01
(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20050203,UT=20050127
(c) 2005 WIPO/Univentio

Set	Items	Description
S1	802	CONVERTIBL???(5N) (VEHICLE?? OR AUTOMOBI?? OR AUTO? ? OR CAR?? OR TRUCK?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S2	237	FRONT??(3N)TRUNK??
S3	54803	(CD OR DISK?? OR DISC??) (3N) (PLAYER?? OR DRIVE?? OR RECORDER??) OR CDPLAYER??
S4	3	S3 (7N) DASH (3N) BOARD??
S5	5783	DASH (3N) BOARD?? OR DASHBOARD??
S6	9443	S3 (5N) (BUILTIN OR INBUILT OR IN(2N)BUILT?? OR EMBED? OR INTEGRATE? OR ATTACH? OR JOIN? OR CONNECT???? OR COMMON? OR UNITED OR MOUNT???)
S7	4073	SLOT(7N) (CD?? OR DISK?? OR DISC??)
S8	0	S1(20N)S2(20N)S5(20N)S6(20N)S7
S9	0	S1(20N)S2
S10	2372	FRONT??(5N)STORAG??
S11	0	S1(20N)S10
S12	0	S2(20N)S3
S13	23	S10(20N)S3
S14	1	S13(20N) (VEHICLE?? OR AUTOMOBI?? OR AUTO? ? OR CAR?? OR TRUCK?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S15	0	S13(20N)S1
S16	0	S7(20N)S1
S17	0	S7(20N)S2
?		

4/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00589521

Low profile hard disk assembly for a hard disk drive.
Flachbau Festplattezusammenstellung fur Festplattenantrieb.
Assemblage de disque dur de faible epaisseur pour un entrainement de disque
dur.

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,
California 94304, (US), (applicant designated states: DE;FR;GB;IE;IT)

INVENTOR:

McAllister, Jeffrey S., 11536 Wildrose Court, Boise, Idaho 83704, (US)

LEGAL REPRESENTATIVE:

Baillie, Iain Cameron et al (27951), c/o Ladas & Parry Altheimer Eck 2,
D-80331 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 597188 A2 940518 (Basic)
EP 597188 A3 940914

APPLICATION (CC, No, Date): EP 93112440 930803;

PRIORITY (CC, No, Date): US 975759 921113

DESIGNATED STATES: DE; FR; GB; IE; IT

INTERNATIONAL PATENT CLASS: G11B-019/20; G11B-025/04;

ABSTRACT WORD COUNT: 212

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	512
SPEC A	(English)	EPABF2	2475
Total word count - document A			2987
Total word count - document B			0
Total word count - documents A + B			2987

...SPECIFICATION surface 5a2 to which a printed circuit board 7 may be attached. The printed circuit board is shown in dot dash outline in Fig. 2. Where the disk drive is embodied in a PC Card, the printed circuit board 7 for the disk drive...

4/3,K/2 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00570706 **Image available**

DUAL MODE CAR STEREO SYSTEM CAPABLE OF PLAYING TWO DIFFERENT TYPES OF RECORDING MEDIUMS

COMBINE STEREO AUTO, DOUBLE MODE, CAPABLE DE LIRE DEUX TYPES DIFFERENTS DE SUPPORTS D'ENREGISTREMENT

Patent Applicant/Assignee:

DAEWOO ELECTRONICS CO LTD,

Inventor(s):

HAN Jong Wha,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200034079 A1 20000615 (WO 0034079)

Application: WO 99KR139 19990325 (PCT/WO KR9900139)

Priority Application: KR 9853308 19981205

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English
Fulltext Word Count: 4727

Fulltext Availability:
Detailed Description

Detailed Description

... ART

Generally, a car is equipped with audio instruments such as a radio, a cassette **player**, a compact **disc** **player** and the like. Such audio instruments are installed on a **dash** **board** formed in front of a driver's seat so as to allow a driver to...

4/3,K/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00567523 **Image available**

CAR STEREO SYSTEM CAPABLE OF ADJUSTING A TILTING ANGLE OF A FRONT PANEL
AUTORADIO AVEC ANGLE D'INCLINAISON DE LA FACADE REGLABLE

Patent Applicant/Assignee:

DAEWOO ELECTRONICS CO LTD,

Inventor(s):

HAN Jong Wha,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200030896 A1 20000602 (WO 0030896)

Application: WO 99KR137 19990325 (PCT/WO KR9900137)

Priority Application: KR 9850807 19981125; KR 9850811 19981125

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CN JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 4193

Fulltext Availability:

Detailed Description

Detailed Description

... ART

Generally, a car is equipped with audio instruments such as a radio, a cassette **player**, a compact **disc** **player** and the like. Such audio instruments are installed on a **dash** **board** formed in front of a driver's seat so as to allow a driver to...

14/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01340724

Card design having tape and disk drives

Kartenentwurf mit Festplatten und Bandlaufwerk

Conception de carte avec unite de disques et de bandes magnetiques

PATENT ASSIGNEE:

Alcatel USA Sourcing, L.P., (2618562), 1000 Coit Road, M/S Legl2, Plano,
Texas 75075, (US), (Applicant designated States: all)

INVENTOR:

Linares, Ignacio, 1620 Brazos Trail, Plano, Texas 75075, (US)

Fourcand, Serge, 311 Dover Court, Fairview, Texas 75069, (US)

LEGAL REPRESENTATIVE:

Schafer, Wolfgang, Dipl.-Ing. (62023), Dreiss, Fuhlendorf, Steimle &
Becker Postfach 10 37 62, 70032 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 1146430 A2 011017 (Basic)

APPLICATION (CC, No, Date): EP 2001106762 010317;

PRIORITY (CC, No, Date): US 539759 000331

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-015/16

ABSTRACT WORD COUNT: 150

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200142	936
SPEC A	(English)	200142	5015
Total word count - document A			5951
Total word count - document B			0
Total word count - documents A + B			5951

...SPECIFICATION comprised of a power connector portion and a SCSI
connector portion is associated with each **storage** device on the **front**
panel **card** 206. For example, the cable connector 261A associated with
the **disk** **drive** 205A comprises the power connector portion 260A and
the SCSI connector portion 262A. In similar...

File 9:Business & Industry(R) Jul/1994-2005/Feb 15
(c) 2005 The Gale Group

File 15:ABI/Inform(R) 1971-2005/Feb 16
(c) 2005 ProQuest Info&Learning

File 16:Gale Group PROMT(R) 1990-2005/Feb 16
(c) 2005 The Gale Group

File 20:Dialog Global Reporter 1997-2005/Feb 16
(c) 2005 The Dialog Corp.

File 47:Gale Group Magazine DB(TM) 1959-2005/Feb 15
(c) 2005 The Gale group

File 75:TGG Management Contents(R) 86-2005/Feb W1
(c) 2005 The Gale Group

File 80:TGG Aerospace/Def.Mkts(R) 1982-2005/Feb 16
(c) 2005 The Gale Group

File 88:Gale Group Business A.R.T.S. 1976-2005/Feb 14
(c) 2005 The Gale Group

File 98:General Sci Abs/Full-Text 1984-2004/Sep
(c) 2004 The HW Wilson Co.

File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media

File 141:Readers Guide 1983-2004/Sep
(c) 2004 The HW Wilson Co

File 148:Gale Group Trade & Industry DB 1976-2005/Feb 15
(c) 2005 The Gale Group

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 275:Gale Group Computer DB(TM) 1983-2005/Feb 16
(c) 2005 The Gale Group

File 264:DIALOG Defense Newsletters 1989-2005/Feb 15
(c) 2005 The Dialog Corp.

File 484:Periodical Abs Plustext 1986-2005/Feb W2
(c) 2005 ProQuest

File 553:Wilson Bus. Abs. FullText 1982-2004/Sep
(c) 2004 The HW Wilson Co

File 570:Gale Group MARS(R) 1984-2005/Feb 16
(c) 2005 The Gale Group

File 608:KR/T Bus.News. 1992-2005/Feb 16
(c) 2005 Knight Ridder/Tribune Bus News

File 620:EIU:Viewswire 2005/Feb 15
(c) 2005 Economist Intelligence Unit

File 613:PR Newswire 1999-2005/Feb 16
(c) 2005 PR Newswire Association Inc

File 621:Gale Group New Prod.Annou.(R) 1985-2005/Feb 16
(c) 2005 The Gale Group

File 623:Business Week 1985-2005/Feb 15
(c) 2005 The McGraw-Hill Companies Inc

File 624:McGraw-Hill Publications 1985-2005/Feb 16
(c) 2005 McGraw-Hill Co. Inc

File 634:San Jose Mercury Jun 1985-2005/Feb 15
(c) 2005 San Jose Mercury News

File 635:Business Dateline(R) 1985-2005/Feb 16
(c) 2005 ProQuest Info&Learning

File 636:Gale Group Newsletter DB(TM) 1987-2005/Feb 16
(c) 2005 The Gale Group

File 647:CMP Computer Fulltext 1988-2005/Jan W5
(c) 2005 CMP Media, LLC

File 674:Computer News Fulltext 1989-2005/Feb W2
(c) 2005 IDG Communications

File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30

(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	20058	CONVERTIBL???(5N) (VEHICLE?? OR AUTOMOBI?? OR AUTO? ? OR CAR?? OR TRUCK?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S2	842	FRONT??(3N)TRUNK??
S3	636221	(CD OR DISK?? OR DISC??) (3N) (PLAYER?? OR DRIVE?? OR RECORDER??) OR CDPLAYER??
S4	15	S3 (7N) DASH(3N)BOARD??
S5	71371	DASH(3N)BOARD?? OR DASHBOARD??
S6	52041	S3 (5N) (BUILTIN OR INBUILT OR IN(2N)BUILT?? OR EMBED? OR INTEGR? OR ATTACH? OR JOIN? OR CONNECT???? OR COMMON? OR UNITED OR MOUNT???)
S7	10443	SLOT(7N) (CD?? OR DISK?? OR DISC??)
S8	0	S1(25N)S2(25N)S5(25N)S6(25N)S7
S9	2	S1(25N)S2
S10	1	RD (unique items)
S11	3411	FRONT??(3N)STORAG???
S12	0	S1(25N)S11
S13	11	S2(25N)S3
S14	7	RD (unique items)
S15	7	S14 NOT S10
S16	149	S3(25N)S11
S17	0	S16(25N)S1
S18	29	S16 (25N) (VEHICLE?? OR AUTOMOBI?? OR AUTO? ? OR CAR?? OR CAR?? OR VEHICUL?? OR BEETLE?? OR VOLKSWAGEN?? OR VOLKS()WAGEN?? OR VW OR PORSCHE?? OR KARMAN(3N)GHIA?? OR VW)
S19	18	RD (unique items)
S20	18	S19 NOT (S15 OR S10)
S21	0	S6(25N)S1
S22	18911	PORTABLE??(5N)S3
S23	0	S22(25N)S1

10/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00690758 93-39979

A rounder car is in your future

Anonymous

Machine Design v65n4 PP: 19-24 Feb 26, 1993

ISSN: 0024-9114 JRNL CODE: MDS

WORD COUNT: 1171

...TEXT: Benz SL Panorama Roof is a non-splintering composite safety glass that extends from the **front** windshield to the **trunk** lid. The **car** also has an automatic **convertible** top and pop-up rollbar that deploys in less than one-third second if rollover...

?

15/3,K/1 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

02469493 Supplier Number: 43257269 (USE FORMAT 7 FOR FULLTEXT)
AutoFILE LEXUS SC400: A STYLE ALL ITS OWN

AutoWeek, p21
August 31, 1992
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1394

... system; Options on test car: Pwr moonroof (\$900); Lexus/Nakamichi premium sound system (\$1,000); **CD player** (\$900); floor mats (\$100); rear spoiler (\$300); traction control system w/heated **front** seats (\$1,600); **trunk** mats (\$62); wheel locks (\$48); Other major options: None.

BY THE NUMBERS

STANDING-START ACCELERATION...

15/3,K/2 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

35670351 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Pittsburgh Post-Gazette Wallet Watcher Column
Donald I. Hammonds
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS - PITTSBURGH POST-GAZETTE -
May 21, 2004
JOURNAL CODE: KPPG LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 536

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... air conditioning on the top two models, AM/FM stereo, remote fuel filler door and **trunk** release, and dual **front** cupholders. The top-of-the-line LS also includes an audio system with a **CD player** and MP3 playback capability, as well as power door locks and power windows.
The Aveo...

15/3,K/3 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

25457021 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Chicago Tribune New Cars Column
Jim Mateja
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (CHICAGO TRIBUNE - ILLINOIS)
October 13, 2002
JOURNAL CODE: KCTR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1314

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... windows/seats/locks/mirrors (heated), leather seats, automatic climate control, digital radio with in-dash **CD player**, and fog lights.

There's also front and rear luggage compartments, or what Porsche calls **front** and rear **trunks**. The two-seater doesn't have a lot of space to carry items in the...

15/3,K/4 (Item 3 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

09315809 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The Orlando Sentinel, Fla., Test Drive Column
Richard Truett
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (ORLANDO SENTINEL - FLORIDA)
January 27, 2000
JOURNAL CODE: KORS LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1014

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... muscles better and keep you from feeling fatigued on long drives. Interior room is excellent, **front** and rear; the **trunk** is gigantic. Our test SSEi came with just about every electronic gadget and accessory Pontiac offers -- heated seats, electric sunroof, cruise control, power everything, 12- **disc CD player**, fog lights and more. However, the electronic memory seats were annoying. Each time I exited

...

15/3,K/5 (Item 1 from file: 608)
DIALOG(R)File 608:KR/T Bus.News.
(c) 2005 Knight Ridder/Tribune Bus News. All rts. reserv.

533984 Story Number: 9561 (USE FORMAT 7 OR 9 FOR FULLTEXT)
THE PHILADELPHIA INQUIRER AL HAAS COLUMN
Al Haas
Philadelphia Inquirer
Jan 17, 1997 03:08 E.T.
DOCUMENT TYPE: Newspaper RECORD TYPE: Fulltext LANGUAGE: English
WORD COUNT: 0951

...TEXT: locks, keyless entry, theft alarm, leather- wrapped steering wheel, tilt steering, stereo with cassette and **CD players**, power antenna, cruise control, rear-window defogger, tachometer, power outside mirrors, message center, six-way power **front** seats, electric **trunk** release, power windows.

-- Test model: Supercharged 3.8-liter engine, heavy-duty automatic transaxle, optional...

15/3,K/6 (Item 1 from file: 634)
DIALOG(R)File 634:San Jose Mercury
(c) 2005 San Jose Mercury News. All rts. reserv.

12642076
SUBARU CAN BROADEN BASE WITH NEW SEDAN
San Jose Mercury News (SJ) - Friday, May 21, 2004
By: MATT NAUMAN column
Edition: Morning Final Section: Drive Page: 3H
Word Count: 909

...trunk pass-through; dual-zone automatic air conditioning; 120-watt AM/FM stereo with six- **disc** **player**; cruise control; power locks, mirrors, windows and **front** seats; tilt steering; **trunk** grocery-bag hooks; leather upholstery; MOMO leather steering wheel; fog lights; moon roof
Options on...

15/3,K/7 (Item 1 from file: 635)
DIALOG(R) File 635:Business Dateline(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

0501265 94-55381
Music on wheels: No sour notes today
Reynolds, Nood
Post-Bulletin (Rochester, MN, US) sE p5
PUBL DATE: 940509
WORD COUNT: 1,246
DATELINE: Rochester, MN, US

TEXT:

...is unaffected by any bumps in the road, etc."

Those wanting the convenience of a **CD** **player** that plays multiple **discs** have to buy what's known as an unrestricted system, which is either installed in the **trunk** or between the **front** seats, etc. These players will accommodate six to 10 discs, just like the home systems...

20/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01653857 03-04847
Components from drives to chips touted at PC Expo
Anonymous
Computer Reseller News n794 PP: 154 Jun 15, 1998
ISSN: 0893-8377 JRNL CODE: CRN
WORD COUNT: 539

...TEXT: feature perfectly flat screens with no visible curvature or distortion from any angle.

On the **storage front**, the vendor will unveil an 8.4-Gbyte hard- **disk drive**, its highest-capacity hard drive to date. It is unknown when the drive will begin shipping.

Microtech International Inc., East Haven, Conn., developed a PCMCIA **card** version of Roy, Utah-based Iomega Corp.'s Zip drive. Microtech's MiZip 100 was...

20/3,K/2 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

10786816 Supplier Number: 109210584 (USE FORMAT 7 FOR FULLTEXT)
For the Rest of You: Apple and Sun Options. (Apple Xserve) (Brief Article) (Excerpt)
eWeek, pNA
Oct 28, 2003
Language: English Record Type: Fulltext
Article Type: Brief Article; Excerpt
Document Type: Magazine/Journal; Trade
Word Count: 344

... using Apple's hot-pluggable drive modules. An optional dual-channel Apple Fibre Channel PCI **card** (\$499) lets you connect to the Xserve's RAID system for additional **storage**.

The neatly arranged **front** panel contains a slick slot-loading **CD** -ROM **drive**, a single 400-Mbps FireWire port, and indicator lights to display connectivity and system activity...

20/3,K/3 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

08258009 Supplier Number: 69669600
GM debuts its bait for younger car buyers.
McCracken, Jeffrey
Detroit Free Press (MI,1995), p3C(1)
Jan 4, 2001
Language: English Record Type: Abstract
Document Type: Newspaper; General

ABSTRACT:
...27 mpg in city driving and 32 mpg on the highway. Standard features include a **CD player**, remote keyless entry, the OnStar communication and

navigation system, and seat-mounted air bags. It would also have a fold-down **front** passenger seat for **storage** of long **cargo**.

20/3,K/4 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

07482439 Supplier Number: 62657406 (USE FORMAT 7 FOR FULLTEXT)
2000 Ford Focus wagon. (Brief Article)
Koucky, Sherri
Machine Design, v72, n10, p130
May 18, 2000
Language: English Record Type: Fulltext
Article Type: Brief Article
Document Type: Magazine/Journal; Trade
Word Count: 824

... car in front of me during an unexpected traffic jam on the highway. Our test **vehicle** had an optional "SE comfort group" that includes a tilt/telescoping steering wheel, cruise control, driver armrest with **storage**, and **front** map lights for \$395. The Zetec engine is an extra \$200. The stereo system was upgraded with a \$140 single **CD player**. Other optional equipment includes a \$15 smoker's package (which I suppose translates into an...).

20/3,K/5 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

36850683 (USE FORMAT 7 OR 9 FOR FULLTEXT)
More for your money
BRISTOL EVENING POST
July 22, 2004
JOURNAL CODE: FBEP LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 876

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... windows, central locking, ISOFIX child seat mountings, rear centre armrest and a four-speaker radio/ **CD player**.

You can add the likes of remote central locking, electric rear windows, six CD autochanger, trip computer, reading lamps, air conditioning and chilled **front** centre **storage** box to the Ambiente spec, while the Elegance specification adds rear parking sensors, alloy wheels, climate control, **auto** dimming mirrors, cruise control and an eight-speaker stereo.

Thankfully, engine choice doesn't take...

20/3,K/6 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

35525982
Big savings on new Tributes
CANBERRA TIMES
May 14, 2004
JOURNAL CODE: WCTS LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 372

... chest and head. Standard equipment on the Limited Sport four-cylinder also includes air-conditioning, **CD player**, remote central locking, power windows and mirrors, alloy wheels, automatic transmission, a **cargo** cover, front fog lamps, roof rails, power aerial and a lidded **storage** bin between the **front** seats. The 2.3-litre four-cylinder MZR engine develops 108kW at 6000rpm and 201Nm...

20/3,K/7 (Item 3 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

33958154
Joss slick with super speed, smooth style -
CANBERRA TIMES
February 20, 2004
JOURNAL CODE: WCTS LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1081

... Standard equipment on the entry-level Limited Sport four-cylinder model also includes air-conditioning, **CD player**, remote central locking, power windows and mirrors, alloy wheels, automatic transmission, a **cargo** cover, front fog lamps, roof rails and a lidded **storage** bin between the **front** seats. Powered by a new 2.3-litre four-cylinder engine, it develops 108kW at... 

20/3,K/8 (Item 4 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

33725411 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Motor Max: Little Pug's not so ugly
USED CARS
LIVERPOOL ECHO
February 06, 2004
JOURNAL CODE: LIVE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 421

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... driver's airbag, immobiliser, and adjustable steering wheel are standard throughout - while the higher spec **cars** add air-con, **CD player**, remote central locking with deadlocks, electric front windows and mirrors. The interior reveals some neat styling tricks like the concealed **storage** pit under the **front** passenger seat, a large glove box with multi-purpose lid, and door bins wide enough to...

20/3,K/9 (Item 5 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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26861703 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Who could deny the irresistible Peugeot 206?
NEWSLETTER
January 04, 2003
JOURNAL CODE: FNLT LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 461

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... s airbag, immobiliser, adjustable steering wheel and sounds are standard throughout - while the higher spec **cars** add air-con, **CD player**, remote central locking with deadlocks, electric front windows and mirrors.

The interior reveals some neat styling tricks like the concealed **storage** pit under the **front** passenger seat, a large glovebox with multi-purpose lid, and door bins wide enough to...

20/3,K/10 (Item 6 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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26582486 (USE FORMAT 7 OR 9 FOR FULLTEXT)
MOTOR MAX: Old faithful keeps motoring
Peugeot 206 looks terrific
LIVERPOOL ECHO
December 13, 2002
JOURNAL CODE: LIVE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 474

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... s airbag, immobiliser, adjustable steering wheel and sounds are standard throughout, while the higher spec **cars** add air-con, **CD player**, remote central locking with deadlocks, electric front windows and mirrors. The interior reveals some neat styling tricks, like the concealed **storage** pit under the **front** passenger seat, a large glovebox with multipurpose lid and door bins wide enough to hold...

20/3,K/11 (Item 7 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
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25484569 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Milwaukee Journal Sentinel Wheels Column
Mark Savage
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (MILWAUKEE JOURNAL SENTINEL - WISCONSIN)
October 12, 2002
JOURNAL CODE: KMJS LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1078

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... This one also added a power sunroof (\$810), which was fairly quiet when open.

The **truck** 's radio sounded fine, and its buttons were large. It also came with a cassette player in the dash, but no **CD player**. However, this one included an optional six-disc model (\$295) in the **truck** 's huge **front storage** toilet, er, box.

Power front seats, with adjustments for height and lower cushion seat angle...

20/3,K/12 (Item 8 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

22763553 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Group Test - Compact Computers - Flat-screen PCs.
Lars-Goran Nilsson.
PC WORLD, p119
March 01, 2002
JOURNAL CODE: WPCW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 4625

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... PCI slots, one free 5.25in and an empty 3.5in drive bay around the front .

Storage is taken care of by a 40GB IBM Deskstar hard drive spinning at 7,200rpm and a Samsung combo DVD/ CD -RW drive . We encountered some problems with this drive, though, as it was very slow at detecting...

20/3,K/13 (Item 9 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

19750931 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Versatility is the key for the Avensis Verso
WESTERN MORNING NEWS , Western Morning News ed, p8
November 09, 2001
JOURNAL CODE: FWMN LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 808

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... speed sensitive power steering, electric windows all round, six-speaker RDS radio plus a single CD player , air conditioning, a remote alarm, front seat armrests and storage boxes for each row of seats.

The GLS cars also get 16-inch alloy wheels, roof rails, air conditioning for the rear passengers, satellite...

20/3,K/14 (Item 10 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

06813661 (USE FORMAT 7 OR 9 FOR FULLTEXT)
San Jose Mercury News, Calif., Drive Column
Matt Nauman
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (SAN JOSE MERCURY NEWS - CALIFORNIA)
August 20, 1999
JOURNAL CODE: KSJM LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 763

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Four-wheel anti-lock brakes, full-size spare tire, air conditioning, AM/FM stereo with CD player , split/folding rear seats,

cargo area tie-downs and storage bins, dual front air bags, rear glass defroster.

Options on test **vehicle** : Utility package with auxiliary power points, first-aid kit, upgraded tires, rear wiper, retractable **cargo** cover, tilt wheel, tubular roof rack, tubular step rails and variable wipers, floor mats.

EPA...

20/3,K/15 (Item 11 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

01582091 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The Philadelphia Inquirer Drive Column
Al Haas
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (PHILADELPHIA INQUIRER)
May 08, 1998 3:58
JOURNAL CODE: KPIN LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 823

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... seat.
Test model: Quattro all-wheel-drive system, special alloy wheels, Bose sound system with **CD player**, ski- **storage** sack, heated **front** seat and steering wheel, power sunroof, seat and mirror memory, **auto** -dimming rearview mirror, leather seats.

Base price: \$33,750

Test model: \$41,225 (inc. shipping...)

20/3,K/16 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2005 The Gale Group. All rts. reserv.

03893171 SUPPLIER NUMBER: 18260531
Nashville TV station buys DVCPRO Smart-Cart; WZTV is first buyer of
Panasonic automated playback unit. (Brief Article)
Dickson, Glen
Broadcasting & Cable, v126, n20, p51(2)
May 6, 1996
DOCUMENT TYPE: Brief Article ISSN: 1068-6827 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 544 LINE COUNT: 00043

... program segments are being timed."

For spot playback, WZTV will use a Tektronix Profile digital **disk recorder** with two hours of **storage** as a **front** -end cache to the **Smart-Cart**. The **Smart-Cart**'s control software will automatically transfer spots to the Profile for play-to-air.

Murlatt...

20/3,K/17 (Item 1 from file: 647)
DIALOG(R)File 647:CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

01164200 CMP ACCESSION NUMBER: CRN19980615S0170
Components From Drives To Chips Touted At PC Expo

CRN Staff
COMPUTER RESELLER NEWS, 1998, n 794, PG154
PUBLICATION DATE: 980615
JOURNAL CODE: CRN LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: Sourcing
WORD COUNT: 552

... feature perfectly flat screens with no visible curvature or distortion from any angle.

On the **storage front**, the vendor will unveil an 8.4-Gbyte hard-disk **drive**, its highest-capacity hard drive to date. It is unknown when the drive will begin shipping.

Microtech International Inc., East Haven, Conn., developed a PCMCIA **card** version of Roy, Utah-based Iomega Corp.'s Zip drive. Microtech's MiiZip 100 was...

20/3, K/18 (Item 2 from file: 647)
DIALOG(R)File 647: CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

01037904 CMP ACCESSION NUMBER: EET19941205S0074
AMP audio card rounds out PCMCIA line (DATAPORT)
W. David Gardner
ELECTRONIC ENGINEERING TIMES, 1994, n 826, PG70
PUBLICATION DATE: 941205
JOURNAL CODE: EET LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: Design
WORD COUNT: 965

... quarter of 1995 with sample prices ranging from \$291 for the lowest Type I-capacity **card** to \$1,445 for the 40-Mbyte Type II **card**. OEM pricing is also available.

Storage drive

Also on the **storage front**, Syquest Technology Inc. has unveiled a 1.8-inch Type III hard-disk **drive card** with a removable cartridge. Called the SQ1080, the ATA-compatible drive enables users to add storage capacity at will. The **card**'s 80-Mbyte cartridges are likely to be used for disk backup, especially in situations...


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HOT ROD WILL BE MUSIC TO YOUNGER SET'S EARS; [THIRD Edition]

ROYAL FORD. Boston Globe. Boston, Mass.: Jun 24, 2001. pg. J.1

[» Jump to full text](#)

Subjects: [Digital music](#), [Automobiles](#)

Companies: [Mazda Motors of America](#) (Duns:02-434-4848)

Product Names: [Mazda Protege MP3](#)

Author(s): [ROYAL FORD](#)

Document types: Product Review-Mixed

Section: [Automotive](#)

Publication title: [Boston Globe.](#) Boston, Mass.: Jun 24, 2001. pg. J.1

Source type: [Newspaper](#)

ISSN/ISBN: 07431791

ProQuest document ID: 74726130

Text Word Count 858

Document URL: <http://proquest.umi.com/pqdweb?did=74726130&sid=1&Fmt=3&clientId=19649&RQT=309&VName=PQD>

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Abstract (Document Summary)

J2001 Mazda Protege MP3 Base price:\$18,020 Price as tested:\$18,565 Horsepower:140 Torque:142 lb.-ft. Wheelbase:102.8 inches Overall length:174.6 inches Width:67.1 inches Height:55.3 inches Curb weight:2,725 lbs. Seating:5 passengers Fuel economy:27.1 miles per gallon SOURCE: Mazda Motor Corp.

Models from [Honda](#), [Hyundai](#), [Audi](#), Subaru, and the Ford Focus are the hottest of hot rods right now. That's why it's interesting to see [Mazda](#) step to the table with the first of its Mazda Performance Series cars, the 2001 Protege MP3. That's MP3 as in downloadable music. As in MP3 player mounted in the dash - an auto industry first. As in, hey, kids, here's the car for you.

[Mazda](#) is making an entry into what is a hot market (can Miata and 626 MP3 versions be far behind?) and the MP3 has set its sights squarely on a growing, dynamic chunk of the market. [Mazda](#) plans to manufacture only 1,500 MP3s this year, but it is a fine, basic start.

[Full Text](#) (858 words)

Copyright [Boston Globe](#) Newspaper Jun 24, 2001

J2001 Mazda Protege MP3 Base price:\$18,020 Price as tested:\$18,565 Horsepower:140 Torque:142 lb.-ft. Wheelbase:102.8 inches Overall length:174.6 inches Width:67.1 inches Height:55.3 inches Curb weight:2,725 lbs. Seating:5 passengers Fuel economy:27.1 miles per gallon SOURCE: Mazda Motor Corp.

These are the halcyon days of horsepower-off-the-assembly-line auto production. There are those who argue that this is environmentally stupid, wasteful, and dangerous.

There are those who point out that, yes, today's cars have more horsepower than ever, yet the engines are far cleaner - and in some cases more fuel efficient - than the less powerful engines of yore.

To date, Americans have voted with their purchase orders, which is why we see a plethora of 200- and 300-horsepower SUVs, performance sedans, luxury sedans, and pocket rockets.

In the midst of this sit the modern hot rods - cars, appealing greatly to young buyers, with relatively small engines tuned with computer chips and exotic exhausts.

Models from ①Honda, ①Hyundai, ①Audi, Subaru, and the Ford Focus are the hottest of hot rods right now. That's why it's interesting to see ①Mazda step to the table with the first of its Mazda Performance Series cars, the 2001 Protege MP3. That's MP3 as in downloadable music. As in MP3 player mounted in the dash - an auto industry first. As in, hey, kids, here's the car for you.

And by bringing the hot little MP3 to market for around \$18,000, ①Mazda has carved out an interesting niche well below ①Audi, somewhere between Subaru's WRX and the offerings of ①Hyundai and Ford.

It's a car that will compete well with the Honda Civic Si, ①Nissan's new Sentra SE-R, ①Hyundai's Tiburon, the Focus, and others.

①Mazda has been here before - sort of - with the 1977 GLC. Here was a sporty, if underpowered, three- or five-door hatchback. It gave way to the 323, which gave way to the Protege, and ①Mazda lost at least some of its sporty edge.

The MP3 is here to re-download that sporty image. How? Looks and at least moderate power.

They've replaced the standard 1.8-liter, 122-horsepower Protege engine with a 2.0-liter, twin-cam four. Given hotter control module, a better manifold, and Racing Beat exhaust, it produces 140 horsepower. Not a rocket, but certainly respectable.

From the outside, its profile has been lowered an inch using Osaka Bane springs; 17-inch alloy wheels with low-profile tires give it a crouched look. A chin spoiler scoops in the lead while a rear spoiler defines the trailing edge. Side skirts and round, bug-eye fog lamps add to the road/rally look.

And the colors? Laser-blue mica and vivid yellow.

Inside, it's got that requisite durable techie look, with dark charcoal fabric and silver, space age inserts on the front bucket seats, rear bench, and door panels. Add aluminum foot pedals, a carbon-fiber touch to the instrument panel with black-on-white gauges, and leather to the wheel and shifter, and you've got a car with a cutting, entry-level edge.

The rear seat really only holds two comfortably, and even then legroom is not expansive. Up front, the buckets hold well along and up the sides, even if they seem a bit soft at the seat.

Of course, given the badging of the car, the interior highlight has to be the 280-watt ①Kenwood audio system with CD and MP3 players. It's a four-channel system with two 6x9-inch, three-way speakers on the rear deck, 5x7-inch two-speakers in each front door, and, pulsing in the trunk, a 10-inch 100-watt subwoofer. Can you say KABOOM, KABOOOOOM?

At 140 horsepower, there are those who will find the MP3 underpowered for its class. I doubt that ①Mazda (through future models or options) or tuners (through the aftermarket) will let that deficiency linger for long.

Power is transferred through a five-speed manual transmission that has crisp, short throws.

The suspension features standard dual stabilizer bars with, up front, struts, offset dampers and coil springs and, in the rear, twin link independent with struts and lower control arms, dampers and coil springs.

Overall handling is sharp, with firm rear-to-front hold when braking. Cornering produced just a hint of body roll. I was troubled only by a hint of torque steer in early, rapid acceleration. I hope this doesn't become a problem as horsepower is increased.

①Mazda is making an entry into what is a hot market (can Miata and 626 MP3 versions be far behind?) and the MP3 has set its sights squarely on a growing, dynamic chunk of the market. ①Mazda plans to manufacture only 1,500 MP3s this year, but it is a fine, basic start.

Nice touch: The price. I know it's not all-wheel drive like the WRX, but it's a lot cheaper and remains fun to drive.

Annoyance: I know this is a car aimed at young people with good eyes, nimble fingers, and electronics in their blood, but the tiny, complicated buttons on the audio panel are way too confusing and hard to use. Thank God it also has a remote control.

Royal Ford can be reached by e-mail at ford@globe.com.

[Illustration]

Caption: The Mazda MP3 combines sportiness with moderate power. The interior has a durable, high-tech look. / GLOBE PHOTOS / J.D. DENHAM

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Document types: Business; Column; Review

Dateline: EDMONTON

Column Name: *Used Car Report*Section: *Wheels*Publication title: [The Vancouver Sun. Vancouver, B.C.: May 12, 2000. pg. D.4](#)

Source type: Newspaper

ISSN/ISBN: 08321299

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Document URL: <http://proquest.umi.com/pqdweb?did=223716911&sid=1&Fmt=3&clientId=19649&RQT=309&VName=PQD>[More Like This](#) [» Show Options for finding similar documents](#)**Abstract (Document Summary)**

So what's not to like? Well, the Sebring has had its share of quality issues, as you can see by the "buyer's alerts." Not surprisingly, used prices are quite affordable. That said, if the styling, features and performance of the Sebring interest you and if you find an older Sebring that passes the essential mechanical inspection, you'll be looking at one of the more affordable cars in this class.

Hard starts, hesitation and rough idling in cold weather could be traced to a defective engine-control computer (181898, April '98). Also be alert for engine issues related to broken valve springs (980605090398, August '98); knocking that could be traced to possible oil pump damage (240598, May '98); intermittent starts and stalls that could be traced to a damaged wire near the transaxle shift lever (181099, May '99); a body vibration at idle that could be traced to the crankshaft (9651, Sept. '96); a binding or crunching noise when the door glass is raised that could be traced to body alignment issues (236296, Oct. '96); seat trim material that pulls away from the seat-belt bezel (233497, June '97); excessive wind noise and/or water leaks at the door and quarter glass (233397A, October '97); CD players that fail to accept discs (082797, July '97); wind noise and water leaks at the sunroof and "A" pillar (230997, March '97); a rattle at the rear that may be traced to a missing fuel door bumper in the fuel door (230498, January '98); engine sagging or hesitation and rough idling that could be related to an oxygen sensor not working properly (180198, January '98); a shaking steering wheel or brake pedal pulsation that could be traced to premature wear of front brake rotors and pads (050898, December '98); an irritating twist in the seat-belts that might be corrected by turning the latch plate 180 degrees to correct the webbing (233199, August '99); hard starts, misfiring and rough idling that might be traced to spark plug fouling, especially in vehicles that have sat for a long time between runnings (183195, October '95).

[Full Text \(1148 words\)](#)

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Ran with factboxes entitled, "Current Red Book pricing: Sebring LXi V6" and "Buyer's alerts: Chrysler Sebring LXi", which have been appended at the end of this story.

EDMONTON - The time was early 1995 and the then-Chrysler had set about introducing the Sebring front-drive sports coupe -- Chrysler's version of the Dodge Avenger coupe that had gone on sale the previous fall.

The idea behind the Sebring was to create an affordable coupe that looked pricey. It also had to have oceans of room inside, a load of standard equipment and the ride, performance and handling of a luxury car with sporting pretensions. In the car business, that's a formula that adds up to what marketing types call "value."

What Chrysler did with the Sebring, and its corporate twin the Avenger, was team up with sometimes-partner [①Mitsubishi Motors](#) with an eye to keeping costs under control and prices down. Thus, the Sebring arrived as a two-door variant of the four-door Mitsubishi Galant, a car not sold in Canada, although very much a player in the United States.

In fact, the first-generation Sebring has the same wheelbase as the Galant of its day, and the cars share the same suspension bits. This is not a bad thing, because the Galant has always been quite a sporty package.

Chrysler, for its part, supplied the styling and the base 140- horsepower four-cylinder engine used in the entry-level Sebring LX.

The upmarket Sebring LXi got a [①Mitsubishi](#)-supplied V6 that displaced 2.5 litres. This engine has four valves per cylinder operated by dual overhead camshafts - for better breathing and more efficient combustion - as well as electronic engine management. With 155 horsepower available, there's plenty of muscle for a 1,440- kilogram (3,200-pound) coupe.

Later, Chrysler changed the four-banger to a smoother 2.4-litre engine.

Uptown styling and the right muscle are important, but what really moves the value-metre is equipment. Well, every LXi came loaded and that's the model to look for on the used-car market.

How loaded? Dual airbags, air-conditioning, four-wheel disc brakes, AM/FM stereo cassette with eight speakers and a graphic equalizer, remote keyless entry with security alarm system, power windows, door locks and mirrors, cruise control and even a power driver's seat. Out on the open road, the Sebring's ride is smooth, the steering and suspension responsive. As for the standard four-speed automatic transmission, shifts are timely, relatively seamless and well-controlled. Note that in mountain driving in Western Canada, hunting for gears has not been a problem.

On the creature-comfort side, the front bucket seats were built to support their riders for hours. Also, there's lots of room all around - even in the back seat, where six-footers can sit without scrunching. On the cargo front, the trunk is impressively spacious and the rear seatback splits and folds down.

So what's not to like? Well, the Sebring has had its share of quality issues, as you can see by the "buyer's alerts." Not surprisingly, used prices are quite affordable. That said, if the styling, features and performance of the Sebring interest you and if you find an older Sebring that passes the essential mechanical inspection, you'll be looking at one of the more affordable cars in this class.

A final note. Later this year, [①DaimlerChrysler](#) will be introducing a second-generation Sebring. And it will come not just as a coupe, but also as a sedan and a two-door convertible. And this car no longer has the [①Mitsubishi](#) connection.

CURRENT RED BOOK PRICING: SEBRING LXI V6

1999 - \$21,575 (\$28,675 original MSRP)

1998 - \$18,900 (\$26,660)

1997 - \$16,675 (\$26,330)

1996 - \$14,825 (\$25,538)

1995 - \$12,750 (\$24,025)

1994 - NA

1993 - NA

BUYER'S ALERTS: CHRYSLER SEBRING LXI

Buyer's Alerts: Look inside for headliners that sag above the rear window due to a separated fastener (TSB 235798, November '98) and air-conditioning system compressor failure in high temperatures (241598, November '98). After launch, the company developed a new multi-layer steel head gasket that was phased in with newer production models (090598, November '98). An engine oil leak at the

cam-position sensor has occasionally been misinterpreted as a head gasket leak (090798, December '98). A harsh ride, pulling to one side or brake shudder may be traced to high or uneven tire pressure (9917, April '99). Look for transmission faults related to the transmission range sensor (9913, March '99).

For convertible models look for tops that bind or fail to operate, as well as hydraulic leaks around the hydraulic cylinder (230698, February '98).

Hard starts, hesitation and rough idling in cold weather could be traced to a defective engine-control computer (181898, April '98). Also be alert for engine issues related to broken valve springs (980605090398, August '98); knocking that could be traced to possible oil pump damage (240598, May '98); intermittent starts and stalls that could be traced to a damaged wire near the transaxle shift lever (181099, May '99); a body vibration at idle that could be traced to the crankshaft (9651, Sept. '96); a binding or crunching noise when the door glass is raised that could be traced to body alignment issues (236296, Oct. '96); seat trim material that pulls away from the seat-belt bezel (233497, June '97); excessive wind noise and/or water leaks at the door and quarter glass (233397A, October '97); CD players that fail to accept discs (082797, July '97); wind noise and water leaks at the sunroof and "A" pillar (230997, March '97); a rattle at the rear that may be traced to a missing fuel door bumper in the fuel door (230498, January '98); engine sagging or hesitation and rough idling that could be related to an oxygen sensor not working properly (180198, January '98); a shaking steering wheel or brake pedal pulsation that could be traced to premature wear of front brake rotors and pads (050898, December '98); an irritating twist in the seat-belts that might be corrected by turning the latch plate 180 degrees to correct the webbing (233199, August '99); hard starts, misfiring and rough idling that might be traced to spark plug fouling, especially in vehicles that have sat for a long time between runnings (183195, October '95).

Also: intermittent/random activation of the theft alarm, especially in high winds, that could be traced to a misaligned hood (084495, October '95); an imprecise cruise-control operation that might be traced to the powertrain control module (081695REVA, October '95; 184095, December '95); a sunroof that opens seemingly by itself that may be traced to a water short in the control unit (232296, April '96); jerky operation of the sunroof that might be related to a missing pivot pin or plastic tabs in the control unit interfering with proper operation (232596, April '96); improper alignment that could leak to timing-belt damage or excessive wear (SB050039, November '96; 091196A, November '96).

[Illustration]

Photo: SEBRING: Chrysler teamed with  Mitsubishi Motors to keep costs under control. ;

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Times Union. Albany, N.Y.: Nov 28, 1996. pg. T.10

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When Earl Zausmer turned on the \$30,000 stereo system in his BMW 540i, four speakers rose from cavities in the dashboard, and a vibrant red laser beam came to rest on the right side of my face.

The purpose of the laser, he explained, is to make sure the sound is being delivered directly to the listener. Conventional stereo systems might bounce the sound off dozens of distorting surfaces inside the car before laying it on the doorstep of your tympanic membrane. But, with the help of the laser, Zausmer's puts it right on the aural money.

That ability to put the music in the right place is part of the reason Zausmer's sound system is easily the best this layman has ever heard. It also figures in the way the system has been received by the experts.

Full Text (1002 words)

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AUTOMOTIVE WEEKLY

When Earl Zausmer turned on the \$30,000 stereo system in his BMW 540i, four speakers rose from cavities in the dashboard, and a vibrant red laser beam came to rest on the right side of my face.

"Ideally, it should hit you right in the ear," Zausmer noted.

The purpose of the laser, he explained, is to make sure the sound is being delivered directly to the listener. Conventional stereo systems might bounce the sound off dozens of distorting surfaces inside the car before laying it on the doorstep of your tympanic membrane. But, with the help of the laser, Zausmer's puts it right on the aural money.

That ability to put the music in the right place is part of the reason Zausmer's sound system is easily the best this layman has ever heard. It also figures in the way the system has been received by the experts.

Last November, Zausmer's system achieved the highest overall point total in sound quality at the International Auto Sound Competition Association finals in Dallas. As for this year, at this writing, who knows?

"For us audiophiles, the November IASCA finals are the Olympics," observed a beaming Zausmer.

Zausmer, the head of a trucking company based in Havertown, Pa., is a boyish 42. He has been an audiophile since he was a truly boyish 15.

According to Zausmer, audiophiles don't just love music, they require it.

"Audiophiles are people who need music to calm their nerves. That's the way we are."

For most of his audiophilic past, Zausmer's hobby has been building home sound systems. But, in recent years, his avocation has taken an automotive turn. That makes perfect sense, since he spends so much time driving around the Northeast, calling on customers.

His interest in building an automotive system led him to the competitions, and an active role in the auto audio community.

The auto-sound community is a growing avocational subculture, according to Bill Burton, technical director at Car Audio and Electronics, which has a circulation of 100,000 and counting. The hobby is popular in this country, and big in Europe, Japan and Canada.

Like so many of his fellow travelers, Zausmer enjoys the social as well as the competitive aspects of the judged shows he enters. After the day's competition, for example, he and fellow competitors go out and have some fun.

"We don't go to bars and stuff like that, and our wives know that," Zausmer said. "We'll go out to dinner together and talk about stereo systems."

In the case of Zausmer's system, that requires a good deal of fat chewing.

The installation — audiophiles call it "the install" — of Zausmer's system required \$30,000 and about 1,800 hours of professional help.

"We ripped apart most of the car," Zausmer recalls.

The process included taking off the front fenders and welding a set of 13-inch woofer, or bass, speakers in the steel structure behind each of the kick panels.

"The woofers are welded to the car. That's why you feel the bass notes through your feet. In effect, you're inside the speaker cabinet."

Fenders, doors, floors and roof were covered with 370 pounds of a special sound-deadening insulation made of asphalt and butyl.

Next, motorized little elevators were fabricated to lift \$5,000 worth of high and midrange speakers from their "silos" on each side of the dash. The high-range speakers (tweeters), are B&W Silver Signatures, so named because their metal componentry is solid silver.

"When you work with silver, you get better sound," Zausmer said.

The speakers get their motivation from three amplifiers. One is a conventional Zapco solid-state unit that powers the woofers. The other two are Milbert vacuum tube units used to actuate the tweeters and midrange speakers.

Vacuum tubes are long obsolete, of course, having been replaced decades ago by transistorized, or solid-state technology. But they persist in the world of exotic audio electronics, Zausmer says, because they "make a gentler, less harsh sound" than solid-state devices.

The speakers and amps work in tandem with two 10-CD players, one in the trunk, the other under the front seat. The whole system is tied together by a Sony ES control unit.

Because the sound-quality competitions also take installation quality into consideration, Zausmer lavished a lot of attention on detail. Housings and connections were handsomely machined from brass and aluminum. Everything possible was done to make the installation neat, safe, and pleasing.

Zausmer says original ideas, like welding the speakers to the car's front structure, added points to his score at the Dallas finals. So did his extensive efforts to make the installation as discreet as possible.

What also helped Zausmer was his considerable gift for tuning stereo systems. Tuning is the key to winning. It doesn't matter how good

your components are if you can't get them to work together properly.

Says Burton, whose magazine recently featured Zausmer's system: "Earl has a wonderful understanding of how to get what he wants."

Apparently so, because the results are pretty stunning. When he plays music for you in his car, he can make it seem as though you are listening in an intimate room -- or a cathedral. And the sound is so natural, pure, and precise. I could hear the trumpet player's fingers hitting the valves during one selection.

And the music is so wonderfully focused. It was as if the singers and musicians in the various recordings he played had carved out their own distinct turf on the dashboard.

Unlike some of his fellow competitors, Zausmer doesn't treat his champion like a show car. He doesn't trailer it to the shows and keep it locked up in the garage when it isn't competing.

"If I have this great system, why shouldn't I listen to it?" he asks.

"I really enjoy listening to it when I'm on the road. And sometimes, when I'm at home, I'll go out in the garage, get in the car, sit back, open a book, and listen to music."

Credit: Al Haas  Knight-Ridder Newspapers

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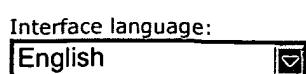
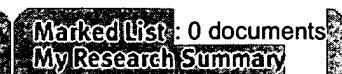
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Auto designers and engineers are giving greater attention than ever before to interior detail because motorists spending an increasing amount of time in their vehicles, are demanding more features and greater comfort. Also, with so many models looking alike on the outside, the interior offers automakers greater opportunity for differentiation. As a result, designers increasingly are first defining vehicle interior demands and then developing an exterior shape around them. Consumers now want CD players up front rather than in the trunk. They also want adequate air conditioning and climate control, readouts on everything, a large glovebox, a passenger airbag, and more cup holders. Power points are being added to plug in phones, faxes, [OBCs](#), and radar detectors. The design processes used by numerous automakers are discussed.

Full Text (2256 words)

Copyright Penton Publishing Mar 23, 1995

Auto designers and engineers today are working from the inside out, giving greater attention than ever before to interior detail. Why? Motorists, spending an increasing amount of time in their vehicles, are demanding more features and greater comfort. Also, with so many models looking alike on the outside, the interior offers automakers greater opportunity for differentiation. As a result, designers increasingly are first defining vehicle interior demands and then developing an exterior shape around them.

"Packaging is the big problem," says Howard Payne, one of the lead designers at [Ford Motor](#). "Now that we've given consumers CD players, they want a six-disc player up front and not in the trunk. They want adequate air conditioning and climate control, readouts on everything, a big glove box, a passenger airbag, and more cupholders."

"The age of miniaturization is here, but there's still a heck of a squeeze," says Payne, who has worked on [Ford's](#) small cars. "Lighter vehicles are preferred for fuel economy and a slick silhouette for aerodynamics. But that pushes the cowl down and slants the

windshield back, so now we have to worry about the reflectivity of the instrument panel and windshield. We're squeezing all those things in, because people still have to put their legs under the IP (instrument panel)."

To run all these features, power points are being added to plug in phones, faxes, ICBs, radar detectors, and who knows what next. "It doesn't end," says Payne. "If we could talk everybody out of smoking, we could gain the ashtray space. It isn't much, but every bit helps."

Designers of the new Lexus and Lincoln Continental have moved **CD players** into the passenger compartment, though still somewhat concealed. Such luxury cars often pioneer high-tech appointments which later filter down to the more popular-priced cars. Avalon, the top-of-the-line U.S.-designed Toyota, has many features adapted from Toyota's premium Lexus line, notes Jeff Rose, general manager of engineering design at Toyota's Technical Center in Torrance, Calif.

Benchmarks for quality

Lexus is the car many designers use as their benchmark for interior design. In fact, Toyota in general is known for outstanding fit and finish. "When you turn a Toyota knob or push a switch, the sound and feel and operation have a quality perception," lauds Tim Greig, chief designer for Pontiac interiors.

Toyota aims for "good practical applications and not necessarily high technology," Rose says. Designers and engineers want "to provide a quality interior with features customers really desire and not increase the price. When we add features, we try to reduce costs somewhere else to pay for them. For example, we put little extenders on the sun visors to blockout glare. Now we have to find a way to pay for that \$1.50 cost somewhere else. "You can solve anything with unlimited money," Rose continues. "Every engineer wants to work on sport and luxury cars, but the real challenge is to make a lower-cost car that has features people want, that is rigid and doesn't feel tinny."

"Cars today have more and more features," he says. "The challenge is to fit them all in and make them durable without adding a lot of weight or cost. The average price of a car now is about \$20,000, and everybody's complaining, but they don't realize that a lot of features that had been optional or weren't even offered before are now wanted by everybody."

Even something as simple as a remote garage door opener poses a problem. "For years everyone was happy just to have a remote, and they didn't care if it clipped on the sun visor," Rose explains. "Now they complain if they buy this fantastic, stylish car, and when they lower the sun visor, the garage door opener sticks them in the eye. There's got to be a better place to put it. These are the kinds of issues we're working on."

Designers must frequently deal in tradeoffs. Take the defroster for side windows, for example. "The best place to put that is in the door where it blows right up against the window," Rose says. "But that additional duct work and other costs may be prohibitive. So there's always a trade-off." Among Toyotas, only Lexus has its side vent in the door; the rest are all on the outer edges of the dashboard.

Cutting costs and parts

A pair of cost-saving examples stand out in the new Avalon: the "piano" hinge devised for the center console lid and a new adhesive that temporarily bonds foam to leather and thus reduces sewing labor on seat covers.

Rather than use the complicated, custom-made, \$7.50 hinge that's on the current Camry, designers fashioned what looks like a door hinge to hold the lid on the Avalon center console. "The length and end bracket shape are unique, but what's really special is the hinge knuckle," Rose explains. "We were able to revise that design and reduce the price by over \$3.50, which we can put in another part of the car, or ultimately maybe keep the price of the car that much lower." The new design eliminates all welding operations on the console and seven subcomponents.

In making a seat cover, foam and then a backing material are bonded to leather. The leather and foam must be held together while an operator sews from a pattern. Previously, to hold the leather and foam together, an operator stitched their outside edges together so they didn't separate while the entire cover was being sewn into a large pattern. All this required "huge labor," Rose says. With one of their suppliers, Toyota developed an adhesive that temporarily glues the foam to the leather, allowing them to be trimmed together and then sewn into the seat cover.

"This isn't a great technical accomplishment, it's something the customer never sees, but we were able to provide the exact same seat for \$4 less," Rose declares. Is that significant on a \$20,000 car? "Designers would kill their mother for \$4," he laughs.

At Pontiac, Design for Manufacturing and Assembly helped establish the interior look of the 1995 Sunfire. One major accomplishment involved reducing the IP to just two pieces, with the lower one containing the instrument cluster, and all the climate and entertainment controls.

"All those controls are usually fed from behind, and they're not easy to load into a big instrument panel. We thought the easiest way to install pieces into the Sunfire IP was to make it like a container that you drop things into and then cover with a lid," Greig explains. "Just by snapping the soft upper 'lid' onto the lower 'container,' we made all the electrical and other connections." DFM also was instrumental in designing a glove box big enough to hold a 12-pack of drink cans and an icepack.

Safety concerns

Airbags are a prime interior safety feature, and one of their biggest recent advances shows up in Cadillac's DeVille Concours and DeVille. In a frontal collision, the driver and passenger airbags deploy simultaneously, with the latter protecting both the front-seat passenger and any center-seat occupant. Side protectors pose the next major airbag challenge, says Cadillac design chief Dennis Little. The problem, of course, is that car doors provide little room for such devices.

Future airbags will be more concealed, ①Toyota's Rose predicts. "For a while airbags were a marketing item. Designers wanted to show they had an airbag, so they put a big label on it, and so forth," he says. "But now they're so common, I think the next trend will be to hide them again. Why make them obvious?"

Protecting motorists from heavy or sharp objects that might be hurled forward from the trunk in a crash is an increasing concern. Hatchbacks and cars with fold-down rear seats are particularly vulnerable. "It's already a big issue in Europe and ultimately will be a big issue here," Rose says. One way to prevent objects from entering the passenger compartment would be to reinforce the seat's latching mechanism.

Seat belt systems in the future will be integrated to the seat itself, as on the Mercedes-Benz, Rose says, "so that comfort will be the same no matter where the seat is positioned in the car. This is inherently more comfortable and safe."

Having controls within easy reach of drivers, so they don't have to take their eyes off the road, has always been a safety concern. Headlight switches on all ①Ford vehicles, for example, must be located within a certain number of inches, on the left side of the IP.

"If you have an Escort and a Taurus, for example, you want the light switch in the same area. You don't want to hunt for it," Payne explains, adding that his goal is to provide a "stressless interior." Similarity of function is also a goal, and these ①Ford switches are all twist type.

Some steering wheels carry an increasing number of controls, and Payne believes "they may be reaching a limit." Designers are also divided on whether to put the climate control panel above or below the stereo system controls.

"There's not one perfect design that suits all people. It depends on each owner," points out David Cole, director of the Office for the Study of Automotive Transportation at the ①University of Michigan. "Some people are much more prone to fool with the temperature rather than the radio controls. Some consumers want a lot of push buttons and small, detailed controls, like a stereo with a graphic equalizer. Others just want a large knob to turn it off and on."

"Some drivers, particularly older ones, like digital dash displays. They see it quickly, and it registers. Younger, enthusiast-type persons, on the other hand, are looking more for an analog-type display that gives different kinds of information. The main thing," Cole stresses, "is to make the radio and heater controls readily accessible to the driver and front-seat passenger." Because interiors are becoming so complicated, some automakers are employing systems integrators, rather than do all the detailed engineering themselves, he adds.

Softer materials

Plastics have been used in auto interiors because of their economy and versatility, and the fact they can be formed into intricate shapes. But the high, and often inconsistent, gloss of ABS is falling from favor as consumers perceive low gloss to be more luxurious. Accordingly, many interiors are shifting from rigid thermoplastics to polypropylene.

"We went to a polypropylene that didn't need painting to have a low gloss level. This required working with suppliers to develop materials that are more rigid than polypropylene typically is, while maintaining the flow characteristics that provide low gloss," ①Toyota's Rose explains.

Consumer resistance to a plastic feel led ①Ford to develop a "soft-touch" paint. It feels so soft that people believe they are depressing the surface slightly. They really aren't; it is rock-hard.

"People perceive a softness, and so they don't complain. They feel more comfortable," says ①Ford's Payne, who likens this to the advent of steel instrument panels. "A steel IP is better than padded because steel absorbs kinetic energy much more readily, but people perceive a need for a padded panel. So we've come up with a padding, and it's accepted."

In some interiors, truly softer materials are featured. The Lexus ES300, for example, wraps many interior parts in vinyl so they feel more comfortable. And the Sunfire sports a soft instrument panel. "Hard plastics are most cost-effective," Pontiac's Greig concedes, "but we think it's important to provide soft materials for our customers."

A greater "harmony" of materials to simplify recycling is foreseen by analyst Cole. "Today there's such a plethora of different materials that it presents problems. We will see a more careful selection of materials, both for disassembly of the vehicle and how that material will be used or reused."

Now that auto designers and engineers are providing so many interior features, what is their next big challenge? "Keeping up with the technology advances that don't involve transportation," says Greig. "The computer industry is advancing so fast we are having a hard time understanding how it all will affect cars. So we are putting in spaces that will be filled later when we really understand what technology customers will expect."

CHRYSLER CIRRUS STRESSES QUALITY

Locating the horn was one of nearly 300 quality details that engineers and designers benchmarked in developing the new 1995 Chrysler Cirrus. They put the horn in the center of the steering wheel because "in an emergency, the center of the steering wheel is where you look for the horn, even though it has an airbag," designers explain. The new Cirrus boasts 42.3 in. of legroom in the front and 38.1 in. in the rear, and a child's seat is integrated into the rear compartment.

A PEEK AT FUTURE BUICKS

The Buick XP2000 concept car offers a network of advanced computers that tailors the car to individual driver preferences and allow it to use the Intelligent Vehicle Highway Systems planned for the next century. Specifically, a remote keyless fob positions seats, climate controls, and even driving response to individual tastes. A "Smart Card" setup permits a credit card to be inserted into the instrument panel and automatically charge tolls, fuel, food, and other services. The IP display can be adapted for use with a PC. A navigation system guides the driver along a map display. The safety features include eight airbags and a detection system for obstacles in the path of the car. Improved interior design extends even under the hood, where the wiring and hoses are all organized and integrated.

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While some parts of the automotive industry have hit a few sour notes over the last decade or so, the years have all been music to the ears of the automotive audio industry. It's currently a billion dollar industry and growing. The only association between our vehicle and a high quality musical performance used to be the transportation it provided us to the concert hall, ballroom, local tavern, or, even home, where we could enjoy our favorite tunes, played the way they should be. Now, more and more of us are listening to that same quality of sound behind the wheel. (excerpt)

Full Text (1246 words)*Copyright Rochester Post-Bulletin Company May 09, 1994*

While some parts of the automotive industry have hit a few sour notes over the last decade or so, the years have all been music to the ears of the automotive audio industry.

It's currently a billion dollar industry and growing.

The only association between our vehicle and a high quality musical performance used to be the transportation it provided us to the concert hall, ballroom, local tavern, or, even home, where we could enjoy our favorite tunes, played the way they should be.

Now, more and more of us are listening to that same quality of sound behind the wheel.

Dan Westerman, Car Audio Department manager at Audio King in Rochester, explains the phenomenon this way: "Think about the number of hours you're in your car each day, commuting to and from work, running errands, driving the kids places, etc. Then, multiply that by the seven days in the week. Most people find that it adds up to a lot more time than they realize. And almost all of us have music on in the car during every one of those hours. When compared to the number of hours per week you listen to music while at home, it convinces you to consider a quality car audio system."

If that analogy doesn't convince you, step into an audio dealer's display area and take a "test drive." Once you've heard the sound of some of the products that have driven this industry's billion-dollar business, you'll know what you've been missing.

The wide variety of custom components available make most factory-installed systems pale by comparison.

Since a car body is not naturally structured to enhance acoustics, having too small a space to allow music to sound natural, it requires electronic help in order to "expand" the acoustical space. "Speakers are definitely the key in achieving this objective," says Westerman. From 3-1/2-inch tweeters to 18-inch woofers, and with costs varying from \$10 to well over \$100, there's availability in every size and price range.

"The woofers, or subwoofers, are the biggest craze with the younger drivers," says Jim Zipse, manager of the Radio Shack store in Rochester.

"They're all after the big bass sound, and the woofer is the component that really enables them to hear those tones."

One woofer will greatly enhance the low bass tones played on your system, but it's not unusual to see numerous woofers in a vehicle. It's a matter of personal choice.

Tweeters, which more clearly reproduce the high-frequency sounds, midrange speakers, and amplifiers are the other components needed to create your traveling concert hall.

Speaker placement is also a big factor with car audio systems. "Ten years ago, the rear speakers were considered to be the most important to the overall sound, but the total opposite is true today," says Westerman.

"Now, the front speakers are the dominant ones. They really localize the sound. The rear speakers are used mainly for fill."

While the car Mom and Pop used to drive came equipped with standard 3-1/2-inch speakers in the dash and maybe a pair of 6 x 9s in the rear, today's speakers are incorporated into a variety of places in the vehicle: Hidden in the trunk, set on the back console, or built into the doors or the back seat. With so many possibilities, many audio enthusiasts are enjoying creating and installing their own unique systems.

An advantage to self-installation is the relative ease with which the components can be removed in the event the car is sold. This is especially important to the younger crowd, whose audio systems are sometimes worth more than the vehicles themselves.

Westerman cautions, however, that "faulty installation can result in damage to the components, the car, and the installer, so it's important to be sure of what you're doing if you're going to do it yourself."

The other option is custom installation, which is so popular that it, too, is becoming a big business.

What you will hear through your speakers ultimately depends on what type of "head unit" you choose. Not surprisingly, Westerman and Zipse report that **CD players** now account for over 50 percent of the business. The vast majority of these **CD players**, which can be built into the dash, are single-disc players, though a number of multi-disc systems are available.

Zipse finds that the automotive adapters for portable compact disc players are a popular item at his store. "People who use their Discman a lot are finding that for very little money they can get an adapter that plugs into the cigarette lighter and enables them to play it in the car." For those spending upwards of \$200, he recommends the digital anti-shock CD player. "This is a component that is basically added to the tape deck. It reads the disc 2.8 seconds ahead of play, and therefore is unaffected by any bumps in the road, etc."

Those wanting the convenience of a CD player that plays multiple discs have to buy what's known as an unrestricted system, which is either installed in the **trunk** or between the **front** seats, etc. These **players** will accommodate six to 10 **discs**, just like the home systems.

As we spend more money on our car's audio system, security becomes a bigger factor. Of course, many vehicles with expensive sound systems are protected by car alarm systems, but the manufacturers have also responded to the concern. Many cassette and **CD players** over \$100 in value come with removable faces. A thin front panel, containing the brains of the operation, is easily detached and slipped into the owner's pocket or purse when leaving the vehicle. What is left in the dash is unattractive to thieves, who would be unlikely to be able to sell just that part of the unit.

With a hot market for their products and technological advances rendering their products antiquated on a seemingly daily basis, the manufacturers of car audio equipment are always improving their materials and adjusting their sizes and speed. Zipse observed that

DCC technology (Digital Compact Cassette) is already rivaling the new mini-disc CDs. "It will be like the VHS vs. Beta competition of the early '80s," he says.

"The attention to the DCC is that it uses tape, and will play regular cassette tapes, but it records digitally," he said.

Westerman is already receiving literature on "car audio for the year 2000." Sounding a little Jetson-like, it promises to be a "computerized mobile electronics system, with endless modular components," and have the ability to "compute the precise acoustical balance for your car's interior, digitally removing the acoustic walls of the vehicle."

Whatever component configuration you ultimately choose, both Westerman and Zipse recommend focusing not just on a single feature of it, like the wattage for instance, but rather looking at what each component will add to the total result you're trying to obtain. And while the components are available in a wide price range, and that sometimes even a small addition makes a noticeable improvement, Westerman says that "you really do get what you pay for."

Whatever the configuration, whatever the price, more and more of us are choosing not to leave home without our car audio systems.

It transforms an ordinary drive to work or the grocery store into a night at the concert hall. With our favorite performers. And front row seats.

Nood Reynolds, a graduate of John Marshall High School and the *University of Minnesota*, has been free-lancing for the Post-Bulletin for several years.

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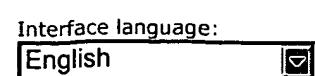
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Abstract (Document Summary)

[Robert F. Lutz] was both the brains and the brawn behind Chrysler's aggressive product offensive throughout the 1990s, pushing through such off-beat, but highly successful vehicles as the Viper, Prowler and PT Cruiser, not to mention the highly-styled LH-sedan lineup and Ram truck.

Revisions to the ES 300's ULEV-compliant 3.0 L DOHC V-6 engine, rated at 210 hp at 5,800 rpm and 220 lb-ft of torque at 4,400 rpm, an all-new five-speed automatic transmission, and other chassis and powertrain improvements are said to make it even smoother and quieter. Its more luxurious bent notwithstanding, Lexus says those improvements, along with bigger brakes, wheels, and tires, also make it more engaging to drive, with better road and steering feel and quicker turn-in response.

To all of this, the H6-3.0 adds yet another level of driving confidence: an all-wheel, all-speed Traction Control System (TCS). Should any wheel spin on a slippery surface, TCS will apply braking force to that wheel to help keep wheel spin under control.

[Full Text](#) (1706 words)

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What [①General Motors](#) needs- has needed for a long time- is a genuine car-guy at the helm to breathe some life into its lack-lustre product portfolio, particularly on the passenger-car side. Such, at least, seems to be the consensus of the automotive media.

Reports out of Detroit- unconfirmed by [①General Motors](#) as we go to press- suggest that this is about to happen. And it is not just any car-guy involved, but the industry's ultimate car-guy: Robert F. Lutz.

Until he announced his resignation this week, Lutz was president and CEO of Exide Batteries, and he will continue to be the chairman of Exide's board. He is best known for his years as president of Chrysler in its pre-[①DaimlerChrysler](#) heyday, playing second-fiddle first to Lee Iacocca, then to Robert Eaton as chairman.

Lutz was both the brains and the brawn behind Chrysler's aggressive product offensive throughout the 1990s, pushing through such off-beat, but highly successful vehicles as the Viper, Prowler and PT Cruiser, not to mention the highly-styled LH-sedan lineup and Ram truck.

The 69 year-old, Swiss-born executive is known for his ability to predict what will succeed in the marketplace, a natural talent honed through years of service beginning with GM, then later BMW and Ford in Europe, before he moved to Chrysler in 1986.

According to The Car Connection, the Detroit-based automotive Web site that broke the story, Lutz will become GM's vice-chairman responsible for product development, replacing Tom Davis, who will retire next year. As such, he will report directly to CEO Rick Wagoner, and will be in charge of product development, which means everyone in the product design and development chain, including design director Wayne Cherry, will report directly to him.

Lutz's hands-on involvement with the product is legendary- a sketch he made after visiting a classic car exhibition in France is said to be the basis for the design of Chrysler's retro-exotic Atlantic show car.

He retired from the Chrysler after the Eaton-organized DaimlerChrysler "merger," which he did not favour, subsequently taking the top job at Exide- his first opportunity to run a company on his own.

His passion remains cars. He unveiled at this year's Detroit auto show a prototype of the Cunningham supercar, intended to compete with the likes of Aston Martin, Ferrari and Lamborghini. He decried the state of automotive design as reflected by much of the rest of the show, comparing the look of some just-unveiled concept cars to snow-plows and trash-compactors.

His sense of design and marketability could be just the shot in the arm GM needs- that's if his position there carries sufficient weight to over-ride the bean-counters and brand-managers that have a hand in running the company.

His appointment would be good news for GM, its shareholders, and its customers. With Lutz at the helm, it is unlikely there will be anymore Pontiac Azteks, or Chevrolet Borregas, for example.

- Gerry Malloy

2002 LEXUS ES 300

With the rear-drive Lexus IS 300 now available for more sport- oriented drivers, the all-new 2002 ES 300 moves even further into the luxury realm _ closer, Lexus says, to the ultra-lux LS 430 flagship.

Based on advanced U.S. information, its standard amenities will include dual-zone automatic climate control with air filtration, premium audio with CD and cassette players and automatic sound level (Mark Levinson audio optional), trip computer, Homelink transceiver, auto-dimming inside and outside rearview mirrors, one-touch up/down control on all side-windows and water-repellent front door glass.

Taller, and riding on a longer wheelbase, it is more contemporary and avant garde in appearance than its predecessor, with a swoopy wedge profile, headlamp covers that sweep well back over the fenders, and a slippery 0.28 drag coefficient.

Revisions to the ES 300's ULEV-compliant 3.0 L DOHC V-6 engine, rated at 210 hp at 5,800 rpm and 220 lb-ft of torque at 4,400 rpm, an all-new five-speed automatic transmission, and other chassis and powertrain improvements are said to make it even smoother and quieter. Its more luxurious bent notwithstanding, Lexus says those improvements, along with bigger brakes, wheels, and tires, also make it more engaging to drive, with better road and steering feel and quicker turn-in response.

Safety features, in addition to ABS and Electronic Brake Distribution (EBD), include new whiplash-injury-lessening (WIL) front seats, dual-stage front airbags, front seat-mounted side airbags, and side curtain airbags. better road and steering feel and quicker turn-in response.

The new ES 300 is expected to go on sale in Canada this fall. We've have more details and Canadian specifications when we drive the car in September.

- Gerry Malloy

SUBARU OUTBACK GETS BIGGER ENGINE

Subaru has shuffled its narrow lineup of models and engines one more time and come up with yet another model for 2002: the Outback H6-3.0 VDC sedan.

The Outback is, of course, a Legacy in hiking gear. The H6-3.0 is a robust, horizontally opposed, 3.0-L six-cylinder engine. The VDC is the Vehicle Dynamics Control active handling system. And a sedan is a car with four doors and a trunk.

The engine delivers 212 hp at 6,000 rpm and 210 lb-ft of torque at 4,400 rpm through a four-speed automatic transmission.

The H6-3.0 is equipped with Subaru's all-wheel system, which uses an electronically controlled hydraulic transfer clutch to direct power to the wheels that need it, even before slippage occurs.

The H6-3.0 VDC adds Variable Torque Distribution (VTD), which gives the car traction even if three wheels are slipping on ice or snow.

The car's Vehicle Dynamics Control works together with the VTD to maintain directional stability. The system monitors inputs such as vehicle speed, steering angle, yaw rate, lateral g-force, braking pressure, gear selection and individual wheel speed. Using that data, the system can tell if the car is going where the driver is steering it, and take corrective action.

For the new model year, VDC-equipped Outbacks will also be fitted with a defeat switch, enabling drivers to turn off the system.

To all of this, the H6-3.0 adds yet another level of driving confidence: an all-wheel, all-speed Traction Control System (TCS). Should any wheel spin on a slippery surface, TCS will apply braking force to that wheel to help keep wheel spin under control.

The Outback features four-wheel independent suspension using a specially tuned strut layout in front and a multilink setup in the rear.

Models come equipped with four-wheel disc brakes with twin-piston calipers in front and four-wheel, four-channel, four-sensor ABS. For 2002, they are equipped with new, larger-diameter vented discs on the front.

A heavy-duty raised suspension, 185 mm of ground clearance, and 225/60 R16 Firestone tires on new-design 16- x 6.5-in. alloy wheels give the H6-3.0 "recreational off-road capability."

- Alex Law

ENTERTAINMENT ON THE GO

Personal horoscopes and soap opera updates have joined the list of audio entertainment information now available to OnStar subscribers in the service's Virtual Advisor feature.

Known mostly for its navigation, concierge and emergency assistance, the OnStar division of General Motors is planning to add a raft of services.

Virtual Advisor allows the more than a million OnStar subscribers to request digital voice services through a Web page.

Along with forecasting your future and keeping you up to date on soap stars, Virtual Advisor can deliver:

****Daily and weekly updates on the latest trends, book reviews, food and wine information, historical facts, consumer issues and more.

****Weekly movie news, information and celebrity updates.

****Weekly updates on the top-10 singles and CDs in adult contemporary, rock, country, classical, jazz/new age, heavy metal, pop, Christian, R&B and alternative music.

****Daily listings of prime-time programming on major network and cable television channels.

****Summaries of recent episodes for the hottest television shows.

****Children's programs updated daily with info that includes activities, short stories, book reviews, video reviews, science programs, jokes and more.

①OnStar has also added personalized traffic information to the lineup, but only in limited U.S. markets for now.

- Alex Law

SEVILLE GETS DVD NAVIGATION

AND BETTER HANDLING

Working on the principle that "precise all-weather control and active safety are two of Seville's hallmarks," Cadillac has given the luxury sports sedan some upgrades for 2002.

The primary changes involve a DVD navigation system and a more sophisticated version of  [Delphi Automotive System's](#) MagneRide adaptive suspension system.

Advanced Vehicle Navigation provides more detailed coverage and convenience than the CD-based system it replaces, since it has a bigger screen and includes all the road info about Canada and the U.S. on one disc. The previous system used nine expensive CDs that owners had to buy.

AVN incorporates voice recognition, part of Cadillac's "eyes on the road, hands on the wheel" philosophy.

The DVD loads into the **front** console rather than into a **trunk** CD changer, and there's also a six-disc CD holder in the dash, which can still be used when the DVD navigation is being used.

The screen tilts down to allow for the loading of the map data DVD, an entertainment DVD or audio CD while the vehicle is in Park. In addition, passengers can watch DVD movies when the vehicle is in Park.

The GPS-based system has five languages (including French and English) and has voice prompts programmable for two drivers. The system remembers 60 pre-programmed locations per driver.

 [Delphi's](#) latest iteration of the magnetic-fluid-based variable damping system, called MagneRide, is due to be released mid-year and responds in one millisecond, which is 10 times faster than systems on the market today.

MR replaces Cadillac's continuously variable road-sensing suspension (CVRSS) struts, and is meant to offer superior handling, control and ride quality on the roughest road surfaces. It's designed to minimize damping forces as needed for improved road isolation and ride smoothness.

Based on the wheel inputs from the road-sensing suspension, the MR system's on-board computer sends an electric current to coils in each damper to change the flow properties of the damping fluid.

- Alex Law

[Illustration]

Caption: Daddy returns T-Bird Ford announced that it will reintroduce the Thunderbird with a 2002 model that will be shown off across Toronto. The tour kicked off at Commerce Court at Bay and King, and attracted a variety of browsers, who waited to have their pictures taken with the car, which is an interpretation of the 1955 roadster.

Credit: PAUL WARNER/ASSOCIATED PRESS

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Who's first? Does it matter?*Mark Brownstein. Computer Technology Review. Los Angeles: First Quarter 2000. pg. 64, 2 pgs*[» Jump to full text](#) Subjects: [Product development](#), [Hard disks](#), [Technological change](#)Classification Codes [7500 Product planning & development](#), [8651 Computer industry](#), [9190 United States](#)Locations: [United States, US](#)Author(s): [Mark Brownstein](#)

Document types: Feature

Publication title: [Computer Technology Review. Los Angeles: First Quarter 2000. pg. 64, 2 pgs](#)

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Document URL: <http://proquest.umi.com/pqdweb?did=53883813&sid=1&Fmt=3&clientId=19649&RQT=309&VName=PQD>[More Like This](#) [» Show Options for finding similar documents](#)**Abstract (Document Summary)**

In the hard drive business, time is short. Companies are competing in many areas - capacity, performance, acoustics, price, and bragging rights. Bragging rights go to the company with the latest in a series of firsts - first to market, first with the current top in areal density, first with a new low in acoustic output, and even first with proprietary drive diagnostics can earn a competitive advantage, all other things being equal. On March 10, [Maxtor](#) briefed selected press on a new series of drives with the unprecedented per-disk capacity of 15.3GB. Three days later, Quantum announced its own 15GB per platter drive. These new drives were designed and targeted for the low cost computer market, rather than for high-end workstations or server.

Full Text (1367 words)*Copyright West World Publications, Inc. First Quarter 2000***[Headnote]**

NEW DRIVES PUSH CAPACITY

In the hard drive business, time is short. It's an arms war out there and the combatants are competing in many areas - capacity, performance, acoustics (practically a non-issue), price (at the low end), and bragging rights. Bragging rights go to the company with the latest in a series of firsts - first to market, first with the current top in areal density, first with a new low in acoustic output, and even first with proprietary drive diagnostics can earn a competitive advantage, all other things being equal.

On March 10, [Maxtor](#) briefed selected press on a new series of drives with the unprecedented per-disk capacity of 15.3GB. Three days later, on March 13, Quantum announced its own 15GB per platter drive.

Both companies claim to be first. Both companies were shipping sample units to OEM customers in March with plans to ship production units to OEMs in April. On April 3, [Western Digital](#) weighed in with a series of hard drives based on 15.3GB per platter. They didn't claim to be first.

Does it really matter who is first to announce? First to ship? First to ship in volume? First to ... what?

By the time you read this, it's a practical certainty that most drive makers who haven't announced their 15GB/platter drives will be getting close to making such announcements. It's also easy to predict that drive makers will be pushing towards their first 22.5 (or so) GB/platter drives. We may be seeing drives with capacities of 20GB/platter (or 10GB/surface) because the industry (and customers) likes round numbers and because a round number target may be easier to reach than 22.5GB/platter.

Where high performance hard drives are often running at 10,000RPM and sometimes even higher, the new 15GB/platter drives run at 5,400RPM or lower. Where high performance drives are offered in SCSI and, in some cases, with native Fibre Channel interfaces, the best that these 15GB drives deliver is ATA66.

These new drives were designed and targeted for the low cost computer market, rather than for highend workstations or servers. While they aren't priced for the sub-\$700 market with Maxtor's 60GB drive carrying a suggested retail price of \$329, Western Digital's 45GB drive priced at \$299, and Quantum's 30GB drive priced at \$259, it should be fairly clear that these drives are designed for midrange computers or for affordable capacity upgrades. Both Western Digital and Maxtor implemented their designs in 5400 RPM, a long proven technology. By slowing down the motors, the drive is given more time to read or write to any specific location on the platter. In a given instant, the heads have access to a larger portion of the disc. By increasing the areal density of the platters, while increasing the amount of time these denser areas can be accessed by the heads, higher per platter densities became possible.

Maxtor's two new drives offer an interesting set of choices-high capacity and higher performance in its DiamondMax 60 and a much lower price point with somewhat lower performance in its DiamondMax VL30. The DiamondMax 60 is a 4 platter drive that delivers 61GB storage capacity. A 2MB buffer (large for most hard drives) enables transfer rates of 40MB/sec. The DiamondMax VL30 is a 30GB drive that has a 512KB buffer. With a suggested price of \$169, the VL30 may find its way into many mid-range systems. For many users, a 30GB upgrade for about \$150 may make more sense than paying twice as much for capacity that the user doesn't expect to use.

Western Digital's WD Caviar 15.3GB per platter drives will also feature 2MB buffers. A variety of models, ranging from a 7.SGB version that uses only one surface to a 45GB version that uses both sides of three platters will be offered by Western Digital.

Quantum has taken the speed drop one step further, spinning its platters at 4400RPM. By further slowing the platter, reading and writing at higher densities may have been even easier for Quantum to accomplish than it was for either Maxtor or Western Digital, which stayed at 5400RPM.

Quantum's 1ct15 drives will feature 512Kb buffers. The drives will be offered in capacities of 7.SGB, 15GB, 20.4GB, and 30GB versions.

An additional benefit was also claimed by all three manufacturers-improved acoustics. The slower drives can be expected to produce less noise than their whirling dervish relatives spinning at 7200RPM or higher. Additionally, technologies developed to further reduce sound output help to make these drives very quiet.

In addition, because the data on the platters is so dense, head movement (a major contributor of drive noise) may be more limited than it is on less dense platters. Maxtor has taken the acoustic issue a step further by offering versions of the drive in "Quiet" mode-an option made available to the OEM customer. Maxtor DiamondMax drives running in quiet mode score 2%-3% lower on benchmark tests than do the standard version of the drives.

In addition to reducing some of the drive costs by allowing speed reductions, the move towards somewhat lower performing, high capacity platters also enabled other cost reductions. For example, when compared to last year's 7.SGB/platter drives, the amount of platters and heads required to store the same amount of data has been halved. The cost of platters and heads are a significant part of the cost of a drive.

Although promising high reliability, and there's little reason to doubt that these somewhat simpler (fewer moving parts) drives will deliver high reliability, a number of issues may need to be considered. First, it may be worthwhile to question the wisdom of putting so much data on a single spindle. If a drive fails, the user stands to lose a tremendous amount of data. Even if backed up onto a DDS4 drive (not one that most users of these 15GB/spindle drives would use), restoring a 60GB drive can take two or three tapes and many hours to restore.

Further, some users may be concerned with drive performance. Locating a file on a surface that contains 7.SGB of data may take longer to seek than would data spread across many higher performance drives.

Additionally, the question of how to partition the drives, if at all, and what kinds of data can be used to fill the drives may also be considered.

Is there an optimal partition size? Is drive performance better if partitions are kept small than if a smaller number of partitions are created? What is the performance impact of using a single 60GB drive versus two 30GB or four 15GB partitions? These are a few of

the issues that should be considered when installing or upgrading to these higher capacity drives.

The higher capacities of CD-ROM drives may force a different way that consumers will think about data storage. For example, a 61GB drive can conceivably store the contents of 100CDs, uncompressed, and always available for immediate playback. When compressed to MP3 format, many hundreds of CDs can be stored onto such a drive.

Similarly, the most frequently used CD-ROMs can also be stored onto a hard drive. When stored along with any necessary installation codes, a user's most frequently used applications can be stored for easy retrieval in case they must ever be re-installed.

In some ways, the growth of hard drive capacities can be considered somewhat analogous to changes in the car business. Two decades ago, a two-sided disc with a whopping 360KB capacity replaced a 5.25-inch floppy drive with 170KB capacity. This was followed with a 1.2MB floppy disk and the introduction of a 2MB hard drive. A 10MB drive was followed by a 20MB drive and the capacity race was on. The early days may be thought of as cars with no trunks, followed by Volkswagens with tiny trunks in the front of the car.

As drives grew in size, eventually reaching the GB range, car trunks finally became full-sized. Today's 60GB drives may be something like that of a 20 foot UHaul truck-lots of capacity and, for many, questions relating to how to use it. The inevitable move towards even higher density low performance drives and the eventual availability of these higher capacities in higher performance drives will make things even more interesting.

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S11	22	S10 NOT PY>2002
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S13	22	RD (unique items)
S14	16	S13 NOT PY>2002
S15	12	S14 NOT S11
S16	6811	S6 (10N) S1
S17	109	S16 (10N) S3
S18	65	RD (unique items)
S19	57	S18 NOT PY>2002
S20	57	S19 NOT (S15 OR S11)
S21	2	S20 (10N) S5
S22	0	S7 AND S1
S23	202	PORTABLE?? (10N) S4
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00402082 88-18915
Versatile Storage: The Many Virtues of Removable Media
Bryan, Marvin
Personal Computing v12n4 PP: 138-146 Apr 1988
ISSN: 0192-5490 JRNL CODE: PSC

...ABSTRACT: range of purposes. The Social and Demographic Research Institute, for example, was attracted to Bernoulli **Boxes** by unlimited **storage** capacity. Iomega cartridges are designed to avoid data loss, but under normal use, they last only around a year. While slower than **built-in** versions, removable hard **disk drives** last longer and are quieter than Bernoulli boxes. Removable tapes are used mainly for rapid...

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06794870 Supplier Number: 57481035 (USE FORMAT 7 FOR FULLTEXT)
JMR Electronics, Inc. and Mylex Partner To Offer High-Performance RAID Storage Components.
Business Wire, p0360
Nov 10, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 837

... on the Internet at <http://www.mylex.com>.
(a) Note: JMR Electronics does not provide **integrated** subsystems including **disk drives**; these are "turnkey" **enclosures** intended for **storage** device integration. Always check drive and controller compatibility.

11/3,K/3 (Item 2 from file: 16)
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06190899 Supplier Number: 54095895 (USE FORMAT 7 FOR FULLTEXT)
Wyle Systems Named as Finalist for FOSE's Best New Product Award; ICEbox NAS 1000 Ranks as Current Finalist in Enterprise Peripheral Category.
PR Newswire, p4776
March 15, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 539

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...a finalist in the Enterprise Peripheral Category. The ICEbox NAS 1000, featuring Quantum DLTtape(TM) **drives** and hard **disk drives**, is a network **attached** "storage -in-a- box" solution that consists of disk RAID storage with simultaneous tape back-up. Packaged in a...

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06154437 Supplier Number: 53951072 (USE FORMAT 7 FOR FULLTEXT)
CMD Technology Announces LVD Version of its CRD-5640 Redundant

Hot-Pluggable, Ultra SCSI RAID Controller.
Business Wire, p0101
Feb 25, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 413

... full-height canister that houses dual controllers, allowing for easy implementation into almost any standard **storage** or server **enclosure**. This is 50% smaller than many competitive offerings. The new LVD version supports that **attachment** of up to 42 SCSI **disk drives**, providing significant scalability in storage capacity.

A CRD-5640 RAID controller product brochure with complete...

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06069504 Supplier Number: 53540635 (USE FORMAT 7 FOR FULLTEXT)
Intermec Licenses Disk Drive, Smart Battery Technologies to Sony.

PR Newswire, p1001
Jan 8, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 350

Invented by Intermec's Norand Mobile Systems division, removable **disk** **drive** systems comprise an **integrated storage container** with an electrical connector that allows any disc drive to be quickly connected to, or...

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DIALOG(R)File 16:Gale Group PROMT(R)
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06065017 Supplier Number: 53517025 (USE FORMAT 7 FOR FULLTEXT)
UNOVA Licenses Disk Drive, Smart Battery Technologies to Sony.

Business Wire, p0217
Jan 6, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 218

... disclosed.

Invented by the Norand Mobile Systems division of UNOVA's Intermec Technologies Corp., removable **disk** **drive** systems comprise an **integrated storage container** with an electrical connector that allows any disc drive to be quickly connected to, or...

11/3,K/7 (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2005 The Gale Group. All rts. reserv.

05356886 Supplier Number: 48147898 (USE FORMAT 7 FOR FULLTEXT)

American Companies in Japan: COMPUTERS AND PERIPHERALS

Japan-U.S. Business Report, v1997, n338, pN/A

Nov 30, 1997

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2733

... with the RAIDPro XL. Storage DimensionsU SuperFlex disk array products are seven-bay, high-availability **storage enclosures** containing fully **integrated** 3.5-inch **disk drives** and tape **drives**. **Disk drives** can be added in increments of 2.1, 4.3 or 9.1 gigabytes for...

11/3,K/8 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2005 The Dialog Corp. All rts. reserv.

01427458 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Creative Design Solutions Announces Industry's Fastest Hot-Pluggable, Thin Server Storage Solution for Novice Users and Small or Branch Offices

BUSINESS WIRE

April 20, 1998 10:1

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 704

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... to the provided slot within the system. However, if more storage is desired, a mass **storage box** containing the desired configuration of **disk drives**, removable **drives** or **CD -ROMs** can be **attached** via a SCSI cable. Finally, Plug & Stor 100's "self-prompting" program takes the user...

11/3,K/9 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2005 The Gale group. All rts. reserv.

02579529 SUPPLIER NUMBER: 03373754 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Commodore's complete portable system. (evaluation)

Haughney, Tom

Computers & Electronics, v22, p34(3)

Aug, 1984

DOCUMENT TYPE: evaluation ISSN: 0745-1458 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 1529 LINE COUNT: 00108

... at home or at a hotel. It is sad omission.

The SX-64 has a **built - in** 5-1/4" halfheight single-sided floppy **disk drive**. Though there is space for ...second drive, Commodore does not yet offer that option. Instead, there is a **an empty compartment** available for disk **storage**. The absence of a second drive is relieved somewhat by the availability of the cartridge...

11/3,K/10 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

14756461 SUPPLIER NUMBER: 88585814 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Products and services by vendor. (Buyer's Guide and Consultants Directory 2002). (Buyers Guide)
Computers in Libraries, 22, 7, 49(18)
July-August, 2002
DOCUMENT TYPE: Buyers Guide ISSN: 1041-7915 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 8639 LINE COUNT: 01123

... ROM Network Servers
CD-ROM Networking Software - 98/NT/M/U
Consulting--Library Automation Systems-- CD -ROM networks
DVD Drives
DVD Juke Boxes
Network Attached Storage (NAS)
Optical Storage Devices
Baker & Taylor,

11/3,K/11 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04861856 SUPPLIER NUMBER: 09435055 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Bits & pieces: your fortnightly guide to all that's new that fits PCs and PS/2s. (column)
PC User, n139, p69(2)
August 15, 1990
DOCUMENT TYPE: column ISSN: 0263-5720 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 1363 LINE COUNT: 00111

... and daisywheel printer have been incorporated into one unit. Each machine has a 240Kb floppy disk drive, a 15-line display and built-in storage compartment.
Features include double column printing, line framing and a data merge facility. Spreadsheet software is...

11/3,K/12 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04845429 SUPPLIER NUMBER: 09617813 (USE FORMAT 7 OR 9 FOR FULL TEXT)
80486 PS/2: new IBM 486 systems; speeds/feeds/price & availability.
Systems, options PS/2 price cuts & withdrawals. Part two of two. (IBM PS/2 95 XP 486, IBM PS/2 90 XP 486) (product announcement)
EDGE: Work-Group Computing Report, v1, n24, p3(1)
Nov 5, 1990
DOCUMENT TYPE: product announcement LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 1675 LINE COUNT: 00124

... OS/2 1.3, and is priced at \$1,095.
THE IBM PS/2 EXTERNAL STORAGE ENCLOSURE FOR SCSI DEVICES The IBM PS/2 External Storage Enclosure for SCSI Devices houses up to seven storage devices, such as fixed disks, CD -ROM drives or tape-backup units, and attaches them to any Micro Channel PS/2 with a SCSI adapter

through a single expansion...

11/3,K/13 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04824116 SUPPLIER NUMBER: 09559705 (USE FORMAT 7 OR 9 FOR FULL TEXT)
IBM PS/2 announcements - 2. (product announcement)
Computergram International, n1546, CGI11020009
Nov 2, 1990
DOCUMENT TYPE: product announcement ISSN: 0268-716X LANGUAGE:
ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1170 LINE COUNT: 00087

... to 50%.
SCSI tower offers up to 2.2Gb storage
The IBM PS/2 External Storage Enclosure for SCSI Devices houses
up to seven storage devices, such as fixed disks, CD -ROM drives or
tape-backup units, and attaches them to any Micro Channel PS/2 with a
SCSI adaptor through a single expansion...

11/3,K/14 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04815033 SUPPLIER NUMBER: 09553749 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**IBM introduces family of 486-based PS/2s, new graphics, options optimized
for advanced technology. (Intel i486 processor, PS/2 Model 95 XP 486,
PS/2 Model 90 XP 486) (product announcement)**
PR Newswire, 1030NY010A
Oct 30, 1990
DOCUMENT TYPE: product announcement LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 2456 LINE COUNT: 00189

... OS/2 1.3, and is priced at \$1,095.
The IBM PS/2 External Storage Enclosure for SCSI Devices
The IBM PS/2 External Storage Enclosure for SCSI Devices houses
up to seven storage devices, such as fixed disks, CD -ROM drives or
tape- backup units, and attaches them to any Micro Channel PS/2 with a
SCSI adapter through a single expansion...

11/3,K/15 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01441752 SUPPLIER NUMBER: 11044880 (USE FORMAT 7 OR 9 FOR FULL TEXT)
ADIC offerings. (Advanced Digital Information Corp.) (product announcement)
LAN Technology, v7, n7, p103(1)
July, 1991
DOCUMENT TYPE: product announcement ISSN: 1042-4695 LANGUAGE:
ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 378 LINE COUNT: 00028

... retails for \$895.
ADIC's second offering is the Tower System I, a multi-disk storage
enclosure . The unit's storage capacity is flexible, and it can handle up

to four 5.25-inch NetWare-ready **disk drives** . The Tower System I has **built - in** dual power supplies for duplexing protection. It has two dual-drive buses for duplexing, and...

11/3,K/16 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2005 The Gale Group. All rts. reserv.

01004738 Supplier Number: 39544666 (USE FORMAT 7 FOR FULLTEXT)
Omni Tech Corporation announces MAC-SAFE, a security cabinet for the Macintosh computer
PR Newswire, pN/A
June 13, 1985
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 201

... bolts to any wood or metal surface and secures the entire Macintosh computer with its **built - in disk drive** and monitor, as well as an additional disk drive and the mouse. The unit has a convenient **storage compartment** . The eight tumbler key lock can be "keyed alike" for multiple units, or "keyed differently"...

11/3,K/17 (Item 1 from file: 634)
DIALOG(R)File 634:San Jose Mercury
(c) 2005 San Jose Mercury News. All rts. reserv.

04017070
APPLE UNVEILS MACS NEW COMPUTERS PLUNGE INTO 32-BIT WORLD
SAN JOSE MERCURY NEWS (SJ) - Monday, March 2, 1987
By: DAVID SYLVESTER, Mercury News Business Writer
Edition: Morning Final Section: Business Monday Page: 1D
Word Count: 1109

... box) One megabyte of internal dynamic random-access memory. Expandable to 4 megabytes.

(box) Two **built - in** 3 1/2-inch floppy- **disk drives** with 800 kilobytes of **storage** each.

(box) A 9-inch high-resolution black-and-white monitor.

(box) Opto-mechanical mouse.

(box) A...

11/3,K/18 (Item 1 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

0173168 90-56698
IBM Introduces Family of 486-Based PS/2s
Epstein, Madeline
Business Wire (San Francisco, CA, US) s1 p1
PUBL DATE: 901030

WORD COUNT: 1,120
DATELINE: White Plains, NY, US

TEXT:

...OS/2 1.3, and is priced at \$1,095.

The IBM PS/2 External Storage Enclosure for SCSI Devices

The IBM PS/2 External Storage Enclosure for SCSI Devices houses up to seven storage devices, such as fixed disks, CD -ROM drives or tape-backup units, and attaches them to any Micro Channel PS/2 with a SCSI adapter through a single expansion...

11/3,K/19 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04215287 Supplier Number: 55091483 (USE FORMAT 7 FOR FULLTEXT)

The Tommy Awards: Millimeter's Third Annual NAB Awards.

Millimeter, pNA

June, 1999

Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Newsletter; Trade
Word Count: 2544

... transmission facility can build around this flexible setup. Consumer technologies, such as off-the-shelf disk drives, are easily integrated. "A giant storage box with great flexibility," says Matt Adams, director of technology for the Olympics, NBC. "That kind...

11/3,K/20 (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0728416 BW1075

STORAGE DIMENSIONS: Storage Dimensions Introduces SuperFlex 3000 DGR Ultra; Delivers Industry-Leading UltraSCSI Performance; New External UltraSCSI Storage System Provides Performance Up to Three Times Higher Than Compaq and HP External Systems

July 28, 1997

Byline: Business Editors/Computer Writers

...offer. The UltraSCSI specification calls for a maximum cable length of 1.5 meters when attached to more than four disk drives. The signal degradation resulting from longer cables that are required to accommodate an external storage enclosure forces UltraSCSI data transfers to be negotiated down to Fast/Wide SCSI-2 speeds. Storage...

11/3,K/21 (Item 2 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0199685 BW660

IBM 2: IBM introduces family of 486-based PS/2s, new graphics, options optimized for advanced technology; function, performance, upgradeability

October 30, 1990

Byline: Business Editors/Computer & Electronics Writers

...OS/2

1.3, and is priced at \$1,095.

The IBM PS/2 External Storage Enclosure for SCSI Devices

The IBM PS/2 External Storage Enclosure for SCSI Devices houses up to seven storage devices, such as fixed disks, CD -ROM drives or tape-backup units, and attaches them to any Micro Channel PS/2 with a SCSI adapter through a single expansion...

11/3,K/22 (Item 1 from file: 813)

DIALOG(R)File 813:PR Newswire

(c) 1999 PR Newswire Association Inc. All rts. reserv.

0316801 NY010A

IBM INTRODUCES FAMILY OF 486-BASED PS2s, NEW GRAPHICS, OPTIONS OPTIMIZED FOR ADVANCED TECHNOLOGY

DATE: October 30, 1990 09:03 EST WORD COUNT: 2,417

...OS/2 1.3,
and is priced at \$1,095.

The IBM PS/2 External Storage Enclosure for SCSI Devices

The IBM PS/2 External Storage Enclosure for SCSI Devices houses up to seven storage devices, such as fixed disks, CD -ROM drives or tape-backup units, and attaches them to any Micro Channel PS/2 with a SCSI adapter through a single expansion...

15/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2005 The Gale Group. All rts. reserv.

1981185 Supplier Number: 01981185 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The New CD Duplication System Scene: Part 2 of 2
(Floore Storage's large-scale PARA*DISC duplication systems are tray-loading
robotic units; new CD duplication systems are discussed)
EMedia Professional, v 10, n 11, p 58+
November 1997
DOCUMENT TYPE: Journal ISSN: 1090-946X (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 2830

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...loading tower configuration.

Optimedia also offers two autoloading products. The Kestrel is a single 4X
recorder with a 12- disc magazine . A slave unit can be **attached** to
double the capacity and throughput. The higher-end Hawk is a larger
caddy-loading...

15/3,K/2 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01523753 01-74741
The new CD duplication system scene
Bennett, Hugh
EMedia Professional v10n11 PP: 58-82 Nov 1997
ISSN: 1090-946X JRNL CODE: LDP
WORD COUNT: 6783

...TEXT: loading tower configuration.

Optimedia also offers two autoloading products. The Kestrel is a single 4X
recorder with a 12- disc magazine . A slave unit can be **attached** to
double the capacity and throughput. The higherend Hawk is a larger
caddy-loading system...

15/3,K/3 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

04926063 Supplier Number: 47240940 (USE FORMAT 7 FOR FULLTEXT)
NSM BUILDS MODULAR JUKEBOX
Optical Memory News, n233, pN/A
March 25, 1997
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 266

... the machine without recataloguing the jukebox, Emel says.
By locating the drives close to the **disk magazines** , NSM reduces
the average swap time to 2.5 seconds, Emel says.
The jukebox **integrates** 12x-speed CD -ROM **drives** from Santa Clara,

Calif.-based Plextor and 4x-write, 6x-read CD-R drives from...

15/3,K/4 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

02600963 Supplier Number: 43455612
Newsweek to Be Issued Quarterly on CD-ROM
The New York Times, pC6
Nov 16, 1992
Language: English Record Type: Abstract
Document Type: Newspaper; General

ABSTRACT:

...will be published quarterly. It will initially be compatible with Sony's new portable multimedia player, but by 1993 CD players attached to IBM personal computers will be able to play the disks. Besides providing some of the text from previous issues of Newsweek magazine, the disks will contain radio interviews, stories from the Washington Post and other features. Steven K Sieck...

15/3,K/5 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2005 The Gale Group. All rts. reserv.

01706941 Supplier Number: 42128767 (USE FORMAT 7 FOR FULLTEXT)
Showstoppers: NEW TECHNOLOGIES BATTLE FOR CES SPOTLIGHT
HFD-The Weekly Home Furnishings Newspaper, v0, n0, p79
June 3, 1991
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 1775

... as primary home audio for video systems.
Look also for the first minis with 6-disk magazine changers in this generation. Changers will see several new configurations as Pioneer introduces both the first 18-disk cartridge changer and the first 5-disk carousel with laserdisc player built in.

Video Games
The 16-bit video games wars will intensify with Nintendo of America Inc...

15/3,K/6 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2005 The Dialog Corp. All rts. reserv.

02966110 (USE FORMAT 7 OR 9 FOR FULLTEXT)
KODAK: New Kodak Picture CD changes the way people create, store, enhance & share pictures on computers
M2 PRESSWIRE
September 29, 1998
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1034

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... requires no additional software installation. Consumers simply

place Kodak Picture CD in their computer's CD -ROM drive , and the built - in software provided by Adobe Systems, Inc., does the rest. Easy-to-follow on-screen instructions guide people through the CD's options using a magazine format. Kodak Picture CD presents its key features in a hyper-linked table of contents, while a pop-up...

15/3,K/7 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2005 The Gale group. All rts. reserv.

04548162 SUPPLIER NUMBER: 18481178 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Young Minds and MediaForm introduce new CD-R autoloader. (Young Minds Inc., MediaFORM develop system for recording CD-ROMs) (New CD-Related Products) (CD-ROM Today) (Brief Article)
Information Today, v13, n7, p20(2)
July-August, 1996
DOCUMENT TYPE: Brief Article ISSN: 8755-6286 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 217 LINE COUNT: 00020

... without the need for any additional operator intervention. Young Minds provides CD recording software that **integrates** both the CD-2500 and the CD -recordable **drives** into UNIX, Windows, and NetWare environments. Young Minds has added support for the CD-2500 to its CD Studio UNIX-based CD -recording solution (Imaging Magazine 's 1995 Product of the Year). CD studio is available for virtually every popular UNIX...

15/3,K/8 (Item 1 from file: 141)
DIALOG(R)File 141:Readers Guide
(c) 2004 The HW Wilson Co. All rts. reserv.

04774742 H.W. WILSON RECORD NUMBER: BRGA02024742 (USE FORMAT 7 FOR FULLTEXT)
Double take.
AUGMENTED TITLE: sports equipment for women
McDowell, Dimity.
Sports Illustrated Women v. 4 no2 (Mar./Apr. 2002) p. 110-11
WORD COUNT: 636

(USE FORMAT 7 FOR FULLTEXT)

TEXT:
... clothes, a cell phone and postworkout toiletries, with both shoulder and backpack straps. Surprise: A CD player storage case , attached by Velcro behind flaps on the front of the bag, has one zippered pocket for...

15/3,K/9 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01000403
IBM adds portable PC.
Infoworld March 12, 1984 p. 14

... 256K random access memory personal computer that features the standard IBM PC detachable keyboard, a built - in 9- in amber monitor, a

single 360K **disc drive**, and **carrying case**. The 20x17x8-in, 30 pound portable will be expandable to 512K and accommodate a 2nd...

15/3,K/10 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01512449 SUPPLIER NUMBER: 12061136 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Down with back-up. (Help Systems Inc. details tools and strategies for
backing up IBM AS/400 minicomputers) (Tutorial)
IBM System User, v13, n2, p55(1)
Feb, 1992
DOCUMENT TYPE: Tutorial ISSN: 0950-303X LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1052 LINE COUNT: 00077

... be easily recoverable.
* Auxiliary storage pools. The AS/400 can be configured to have a
built in disk drive solely for back-ups and not for regular data.
Saving to the ASP is much faster than to a regular disk drive.
* Cartridge magazine tape drives. The 3480 cartridge devices from
the likes of Memorex Telex and EMC hold...

15/3,K/11 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01166749 SUPPLIER NUMBER: 04470858
Traveling laptop is highly portable but lacks speed, memory capacity:
Complete Laptop System. (Hardware Review) (evaluation)
Levinson, Sherwin
InfoWorld, v8, n43, p60(4)
Nov 3, 1986
DOCUMENT TYPE: evaluation ISSN: 0199-6649 LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

...ABSTRACT: 32K RAM and an 8-line, 40-character LCD display; the 3.5-inch
external disk drive from Purple Computing; a carrying case; built
- in software; Traveling Software's Ultimate ROM II chip containing a word
processor, relational database, outline...

15/3,K/12 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2005 ProQuest. All rts. reserv.

02808101 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The CD-ROM novel **Myst** and McLuhan's fourth law of media: **Myst** and its
"retrievals"
Miles, David
Journal of Communication (GJOC), v46 n2, p4-18
Spring 1996
ISSN: 0021-9916 JOURNAL CODE: GJOC
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 6456 LENGTH: Long (31+ col inches)

TEXT:

... and television. Statistics alone speak to this fact. By the end of 1995, according to CD -ROM Professional magazine ("CD -Rom Growth," 1996), 30 million computer CD -ROM players (computer drives) existed in the United States.

Admittedly, such figures have to be viewed with some caution. For at least three...

21/3,K/1 (Item 1 from file: 647)
DIALOG(R)File 647: CMP Computer Fulltext
(c) 2005 CMP Media, LLC. All rts. reserv.

00633623 CMP ACCESSION NUMBER: EET19891016S1739
IA COSTS UNDERCUT CURRENT YAMAHA ENTRY:Sony system records on CD audio or CD-ROM platters

RICHARD DOHERTY
ELECTRONIC ENGINEERING TIMES, 1989, n 560, 37
PUBLICATION DATE: 891016
JOURNAL CODE: EET LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: TECHNOLOGY
WORD COUNT: 658

At the recently held CD-ROM Expo, Sony previewed the laser- disk recorder / player (dubbed CD Writer) in a CDU-5000 CD -ROM player cabinet , a CD playback system Sony markets to OEMs and integrators . It measures about 11 8 5 inches. The prototype system has a fiber-optic cable...

21/3,K/2 (Item 1 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0391362 BW152

ATG CYGNET OPTICOR: ATG Cygnet and OptiMed Technologies deliver automated medical image archive system for cardiac catheterization labs; OptiCor disk archiving system replaces film with laser disk, provides real time computer network access to video images

March 14, 1994

Byline: Business Editors -- Computer & Health Writers

...WIRE) --March 14, 1994--OptiCor, a fully automated medical imaging archive system featuring laser video disc recorders and players integrated in the ATG Cygnet Series 1800 Optica 1 Jukebox, is now available from OptiMed Technologies Inc...?

File 2:INSPEC 1969-2005/Feb W1
(c) 2005 Institution of Electrical Engineers
File 6:NTIS 1964-2005/Feb W1
(c) 2005 NTIS, Intl Cpyrgt All Rights Res
File 8:Ei Compendex(R) 1970-2005/Jan W3
(c) 2005 Elsevier Eng. Info. Inc.
File 34:SciSearch(R) Cited Ref Sci 1990-2005/Feb W1
(c) 2005 Inst for Sci Info
File 35:Dissertation Abs Online 1861-2005/Jan
(c) 2005 ProQuest Info&Learning
File 65:Inside Conferences 1993-2005/Feb W1
(c) 2005 BLDSC all rts. reserv.
File 94:JICST-EPlus 1985-2005/Jan W1
(c)2005 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2005/Jan W1
(c) 2005 FIZ TECHNIK
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Jan
(c) 2005 The HW Wilson Co.
File 144:Pascal 1973-2005/Feb W1
(c) 2005 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
(c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2005/Feb 12
(c) 2005 ProQuest Info&Learning

Set Items Description
S1 43417 (CD OR DISK?? OR DISC??)(3N)(PLAYER?? OR DRIVE?? OR RECORD-
ER??)
S2 17253 STORAG??(3N)(COMPART???? OR SECTION?? OR AREA?? OR BOX?? OR
CHAMBER?? OR ENCLOSUR?? OR CONTAINER??)
S3 38425 (CD OR DISK? ? OR DISC? ?)(3N)(STORAGE?? OR MAGAZIN?? OR B-
OX?? OR CASE?? OR COMPART???? OR ENCLOSUR?? OR CABIN??)
S4 517 (CD OR DISK? ? OR DISC? ?)(3N)(STORAGE?? OR CARRYING??)(3N)(BOX?? OR
CASE??) or (CD OR DISK? ? OR DISC? ?)(3N)MAGAZIN???
S5 5744164 BUILTIN OR INBUILT OR IN(2N)BUILT?? OR INTEGRA???? OR ATTA-
CH???? OR UNITED OR UNITARY OR (SINGLE OR ONE)(3N)COMPONENT??
OR (ONE OR SINGLE)/PIECE??
S6 4048 PHONOGRAPH?? OR RECORD???(3N)PLAYER?? OR TOY(3N)RECORDER??
OR STEREO(3N)CABINET??
S7 550 AU=(RAFFERTY C? OR RAFFERTY, C?)
S8 176 S1 AND S2
S9 43 S8 AND S5
S10 36 RD (unique items)
S11 29 S10 NOT PY>2002
S12 17 S1 AND S4 AND S5
S13 14 RD (unique items)
S14 13 S13 NOT PY>2002
S15 13 S14 NOT S9
S16 1216 S1 AND S3 AND S5
S17 877 S5(3N)S1
S18 20 S17(3N)S3

S19 20 RD (unique items)
S20 20 S19 NOT (S15 OR S10)
S21 18 S20 NOT PY>2002
S22 515 S6 AND S1
S23 26 S22 AND S3
S24 25 RD (unique items)
S25 5 S24 AND S5
S26 5 S25 NOT (S15 OR S10 OR S20)
S27 0 S7 AND S1

11/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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7523059 INSPEC Abstract Number: B2003-03-3120B-031, C2003-03-5320C-022
Title: 2.5 rad/sec/sup 2/ resolution digital output MEMS-based rotational
accelerometer for HDD applications

Author(s): Gola, A.; Pasolini, F.; Chiesa, E.; Lasalandra, E.; Tronconi,
M.; Ungretti, T.; Baschirotto, A.

Author Affiliation: STMicroelectronics, Cornaredo, Italy
Conference Title: Digest of the Asia-Pacific Magnetic Recording
Conference 2002 (Cat. No.02EX584) p.CP1-01-CP1-02

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2002 Country of Publication: USA 216 pp.

ISBN: 0 7803 7509 2 Material Identity Number: XX-2002-02993

U.S. Copyright Clearance Center Code: 0-7803-7509-2/02/\$17.00

Conference Title: Digest of the Asia-Pacific Magnetic Recording
Conference 2002

Conference Sponsor: IEEE Singapore Sect.; IEEE Magnetics Soc.; ASME

Conference Date: 27-29 Aug. 2002 Conference Location: Singapore

Language: English

Subfile: B C

Copyright 2003, IEE

...Abstract: following. It is a capacitive rotational accelerometer
sensor which uses MEMS. The vibrations of the **disk** **drive** cause tiny
rotational displacements of the moving part of the MEMS structure, which
are measured...

... in the correct position. This allows the track spacing to be reduced
significantly, increasing the **storage** density per unit **area**. The
circuit has been realized in a 0.61 μ m BiCMOS technology with an...

...Descriptors: BiCMOS **integrated** circuits...

... **disc** **drives** ; ...

... **integrated** circuit design...

... **integrated** circuit measurement

...Identifiers: **storage** density per unit **area** increase

11/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

7263065 INSPEC Abstract Number: A2002-12-4280T-007, B2002-06-4120-017,
C2002-06-5320K-010

Title: 2D area/3D volume holographic optical storage nanotechnology

Author(s): Thomas, M.E.

Author Affiliation: Colossal Storage Corp., Fremont, CA, USA

Journal: Proceedings of the SPIE - The International Society for Optical
Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA)
vol.4386 p.62-74

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2001 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2001)4386L.62:AVHO;1-5

Material Identity Number: C574-2001-281

U.S. Copyright Clearance Center Code: 0277-786X/01/\$15.00

Conference Title: Photonic and Quantum Technologies for Aerospace Applications III
Conference Sponsor: SPIE
Conference Date: 17-18 April 2001 Conference Location: Orlando, FL,
USA
Language: English
Subfile: A B C
Copyright 2002, IEE

...Abstract: a ferroelectric molecule. These methods will be used to develop the worlds first 2D/3D **area** /volume holographic mass **storage** device: U.S. Patents, #6,028,835 2/00 and #6,046,973 4/00 for an **integrated** read/write head for ferroelectric optical media.

Identifiers: 2D **area** holographic optical **storage** nanotechnology...

... **integrated** read/write head...

...optical holographic **disk** **drive** storage product

11/3,K/3 (Item 3 from file: 2)
DIALOG(R) File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

7099648 INSPEC Abstract Number: C2002-01-5320-001
Title: Evolution of mass storage systems: issues and challenges
Author(s): Hariharan, P.C.
Author Affiliation: Syst. Eng. & Security Inc., Greenbelt, MD, USA
Journal: Journal of the Magnetics Society of Japan vol.25, no.5 p.
1245-51

Publisher: Magnetics Society of Japan,
Publication Date: 2001 Country of Publication: Japan
CODEN: NOJGD3 ISSN: 0285-0192
SICI: 0285-0192(2001)25:5L.1245:EMSS;1-2
Material Identity Number: B296-2001-009
Language: English
Subfile: C
Copyright 2001, IEE

...Abstract: has led to the development of technologies like RAID and RAIT. Despite areal densities of **disk** **drives** doubling about every 18 months from the mid-90s, the need for room for the...

...soon, Infiniband. Third party transfers have been talked about since the early 70s, but network- **attached** storage (NAS) and, more recently, **storage** **area** networks (SAN) have emerged to alleviate bottlenecks in I/O and to simplify addition of devices. Areal density growth curves indicate that hard **disk** **drives** have now topped an annual compound growth rate (ACGR) of 100% and could become cheaper...
...Identifiers: network- **attached** storage...

... **storage** **area** networks...

...hard **disk** **drives** ;

11/3,K/4 (Item 4 from file: 2)
DIALOG(R) File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

7099643 INSPEC Abstract Number: B2002-01-3120B-009, C2002-01-5320C-008
Title: High density hard disk drive trends in the USA
Author(s): Coughlin, T.M.
Author Affiliation: IIST, Santa Clara Univ., CA, USA
Journal: Journal of the Magnetics Society of Japan vol.25, no.3, pt.1
p.111-20
Publisher: Magnetics Society of Japan,
Publication Date: 2001 Country of Publication: Japan
CODEN: NOJGD3 ISSN: 0285-0192
SICI: 0285-0192(2001)25:3:1L.111:HDHD;1-0
Material Identity Number: B296-2001-005
Language: Japanese
Subfile: B C
Copyright 2001, IEE

Title: High density hard disk drive trends in the USA
Abstract: The United States is a major center for disk drive technology. Feeding the current extraordinary growth in data storage areal density has been the developments in component technology. This explosion in storage capacity has provided...
... the cost of storage has gone down new non-computer markets have opened up for disk drives and new form factors for mobile markets have appeared. Technically it appears that disk drive areal densities can go well above 100 Gb/in². However the lack of profitability in the disk drive and component industries could prevent the capital investments required to achieve these higher areal densities...

... with projections for the future. We complete this review by projecting three classes of enterprise disk drives developing by 2002 to address different market needs.

Descriptors: disc drives ;
Identifiers: high density hard disk drive trends...

... United States...

... disk drive technology...

...data storage areal density...

... disk drives ;

11/3,K/5 (Item 5 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6754353 INSPEC Abstract Number: C2000-12-7210L-033
Title: NAS and SAN: implications for library use
Author(s): Mayes, B.C.
Author Affiliation: Libr., Temple Univ., Philadelphia, PA, USA
Conference Title: 15th Annual Computers in Libraries 2000. Proceedings -
2000 p.184-6
Publisher: Inf. Today, Medford, NJ, USA
Publication Date: 2000 Country of Publication: USA ix+296 pp.
ISBN: 1 57387 095 1 Material Identity Number: XX-2000-00305
Conference Title: Proceedings of Conference on Computers in Libraries
2000
Conference Sponsor: Inf. Today
Conference Date: 15-17 March 2000 Conference Location: Washington, DC,
USA

Language: English
Subfile: C
Copyright 2000, IEE

Abstract: Two new buzzwords: network- **attached** storage (NAS) devices are storage **drives** (hard **disks** , CD towers, and tape **drives**) that connect directly to an existing network infrastructure, and are accessible without the need for a server. The **storage area** network (SAN), a high-speed sub-network of storage devices shared by multiple servers and...
...Identifiers: network- **attached** storage devices...

... **storage area** network

11/3,K/6 (Item 6 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02900043 INSPEC Abstract Number: B87037422, C87034053
Title: ESDI magnetic disk controller mu PD7262
Author(s): Matsumoto, K.; Kiuchi, T.; Arai, T.; Kosaka, H.; Hashimoto, K.; Tanaka, H.; Fukuda, K.; Demura, S.; Mori, N.; Yasuda, S.
Author Affiliation: NEC, Tokyo, Japan
Journal: NEC Technical Journal vol.39, no.10 p.61-3
Publication Date: Oct. 1986 Country of Publication: Japan
CODEN: NECGEZ ISSN: 0285-4139
Language: Japanese
Subfile: B C

Abstract: The authors describe the mu PD7262 magnetic disk controller LSI. The mu PD7262 controls hard **disk drives** which have the enhanced small device interface (ESDI). ESDI is becoming prominent as a industrial standard interface for hard **disk drives** , especially in the small size, high speed, and large **storage capacity areas** . The mu PD7262 makes it easy to adopt ESDI magnetic **disk drives** in personal computers, office computers, etc.

...Descriptors: digital **integrated** circuits...

...large scale **integration**
...Identifiers: hard **disk drives** ;

11/3,K/7 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

04472082 E.I. No: EIP96083285238
Title: PC cards (PCMCIA): progress, projections & potential potholes
Author: Prophet, Andrew M.
Corporate Source: AP Research
Conference Title: Proceedings of the NEPCON WEST'96. Part 3 (of 3)
Conference Location: Anaheim, CA, USA Conference Date:
19960227-19960229
E.I. Conference No.: 45120
Source: National Electronic Packaging and Production
Conference-Proceedings of the Technical Program v 3 1996. p 1457-1459
Publication Year: 1996
CODEN: NEPPAL ISSN: 0470-0155
Language: English

...Abstract: why these cards have caught on: Standardized interface with portable PCs; I/O capability to **attach** LANs, modems, wireless communication and more storage; Plug and play software for hot-insertion in

... Descriptors: *Smart cards; Personal computers; Standards; Marketing; Electronics industry; Magnetic disk **storage**; Local **area** networks; Data communication equipment; Voice/data communication systems; Modems

Identifiers: PC cards; Personal computer memory card international association; Flash memory; Flash cards; Rigid **disk** **drives**; Interoperability

11/3,K/8 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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05167676 JICST ACCESSION NUMBER: 02A0407816 FILE SEGMENT: JICST-E
Cutting edge of the Information Storage Technologies. Technology on Hard Disk Drives and Raid System.

MURAOKA HIROAKI (1); ODAWARA HIROAKI (2)

(1) Res. Inst. of Electr. Commun., Tohoku Univ.; (2) Hitachi, Ltd., Cent. Res. Lab.

Denki Gakkaishi(Journal of the Institute of Electrical Engineers of Japan), 2002, VOL.122,NO.4, PAGE.219-223, FIG.8, TBL.2, REF.9

JOURNAL NUMBER: F0011AAV ISSN NO: 1340-5551 CODEN: DGZAA

UNIVERSAL DECIMAL CLASSIFICATION: 621.3:681.327.1

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

Cutting edge of the Information Storage Technologies. Technology on Hard Disk Drives and Raid System.

...ABSTRACT: RAID was shown. Except them, for recent topics on storage system, here were introduced SAN (**storage** **area** network) and NAS (network **attached** storage).

11/3,K/9 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04957014 JICST ACCESSION NUMBER: 01A0840867 FILE SEGMENT: JICST-E
Implementation of A Fat-Btree in An Autonomous-Disk Cluster.

KAZATO HIROSHI (1); YOKOTA HARUO (2)

(1) Tokyo Inst. Technol, Graduate School of Information Sci. and Engineering, JPN; (2) Tokyoiodai Gakujutsukokusaijohose

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report (Institute of Electronics, Information and Communication Engineers), 2001, VOL.101,NO.193(DE2001 78-104), PAGE.43-50, FIG.4, TBL.1, REF.8

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 681.32.07 681.327

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: and crash recoveries by utilizing a control processor and a large amount of memory within **disk** **drives**. Autonomous **disks** can dispatch requests from hosts to appropriate disk and balance data

amount in a cluster...
IDENTIFIERS: NAS(Network **Attached** Storage...
...SAN(**Storage Area Network**)

11/3,K/10 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2005 FIZ TECHNIK. All rts. reserv.

01612562 20020205071
Drowning in Data. Dizzying increases in storage needs are driving new technology, as well as new business models
(Datenspeicherung mit effizienten Systemen der Informationstechnologie)
Shanley, A
Chemical Engineering, New York, v108, n4, pp55-56,58, 2001
Document type: journal article Language: English
Record type: Abstract
ISSN: 0009-2460

ABSTRACT:
...moves toward the target of 'open' interconectable systems. Today, many companies are installing their own **Storage Area Networks (SAN)**, high-speed networks connecting data-storage devices with a dedicated data-server to...

...to testing and developing open systems. A faster, less expensive fix than SANs is **Network Attached Storage (NAS)**, offered by Network Appliances (Santa Clara, Calif.; netapp.com), Auspex (Santa Clara, Calif...).

...Calif.; procom.com), and a number of other vendors. In a typical NAS system, hard- **disk** storage **drives** are connected via an Ethernet card to a LAN, and assigned an independent IP address...
...IDENTIFIERS: **STORAGE AREA NETWORK**; **NAS**...

...**NETWORK ATTACHED STORAGE**); **ERP**

11/3,K/11 (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2005 FIZ TECHNIK. All rts. reserv.

01572033 20011004537
Kostenguenstig optisch speichern. Sekundaerspeicher
Blanchard, B
Maxoptix Europe
Network World Germany, v3, n19, pp36,38, 2001
Document type: journal article Language: German
Record type: Abstract
ISSN: 1438-7891

ABSTRACT:
...Beantwortung von zehn Fragen) und einer kurzen Beschreibung der primaeren Speichersysteme fuer Unternehmensnetzwerke SAS (Server **Attached Storage**) als die gaengigste Verbindungs methode sowie **NAS (Network Attached Storage)** und **SAN (Storage Area Network)** werden die Sekundaerspeichertechniken (fuer austauschbare Datentraeger) vorgestellt: Die Voraussetzungen fuer die Datensicherung und Archivierung...
DESCRIPTORS: ARCHIVING; SELECTION CRITERIA; LIBRARIES; BACK UP; DIGITAL VERSATILE DISKS ; MAGNETIC TAPE **DRIVES** ; MAGNETIC TAPE STORAGE;

MAGNETOOPTIC MEMORIES; READ ONLY MEMORY; DIRECT ACCESS MEMORIES; ROBOTS;
BUSINESS NETWORKS; WORM...
...IDENTIFIERS: SERVER **ATTACHED** STORAGE); NAS...
...NETWORK **ATTACHED** STORAGE); SAN...
... **STORAGE AREA** NETWORK); OSD

11/3,K/12 (Item 3 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01522677 20010604011
Storage-Techniken im Wettstreit. Vergleichstest: NAS versus SAN
Mier, E; Percy, K
Miercom, Princeton Junction, USA
Network World Germany, v3, n11, pp66-67, 2001
Document type: journal article Language: German
Record type: Abstract
ISSN: 1438-7891

ABSTRACT:
...zu koennen, sind leistungsfaehige Speichertechniken erforderlich.
Inzwischen hat der Trend zu dedizierten Speichernetzen mit SAN (**Storage Area** Network) und NAS (Network **Attached** Storage) zwei neue Ansaetze etabliert. Getestet wurde, wann NAS eine bessere Performance als SAN erzielen...
DESCRIPTORS: COMPARATIVE TESTING; DATA STORAGE; HARD **DISC** **DRIVES** ;
COMPUTER NETWORKS; MASS STORAGE
...IDENTIFIERS: **STORAGE AREA** NETWORK); NAS...
...NETWORK **ATTACHED** STORAGE); Speicher-Technik; Vergleichstest

11/3,K/13 (Item 4 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01505661 20010306111
Datenspeicher in einer E-Business-Infrastruktur. Forrester Research erwartet Verfuenffachung des Storage-Bedarfs
Duemig, P
Dell Computer, Langen, D
Computerwoche, v28, n11, pp38, 2001
Document type: Short journal article Language: German
Record type: Abstract
ISSN: 0170-5121

ABSTRACT:
...Ansprechche. Hier befinden sich die Datenbank-Server und daran angeschlossene Massenspeichersysteme: SCSI-Storage, NAS (Network **Attached** Storage), SAN (**Storage Area** Network) und Bandlaufwerke fuer Backup-Loesungen. Zum Aufbau einer robusten Infrastruktur sollten die Datenbank-Server...
...DESCRIPTORS: LOCAL AREA NETWORKS; FIBREGLASS; INFRASTRUCTURE; SYSTEM ARCHITECTURE; MODELS; MARKET ANALYSIS; HARD **DISCS** ; MAGNETIC TAPE **DRIVES** ; CACHE MEMORIES

11/3,K/14 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

2313366 H.W. WILSON RECORD NUMBER: BAST01032144
Drowning in data
Shanley, Agnes;
Chemical Engineering v. 108 no4 (Apr. 2001) p. 55-8
DOCUMENT TYPE: Feature Article ISSN: 0009-2460

...ABSTRACT: increased from 40 terabytes in 1998 to 300 terabytes in 2001. Many companies are installing **Storage Area Networks** (SANS), high-speed networks connecting data-storage devices with a dedicated data-server to a LAN. **Network Attached Storage** (NAS) is a faster, less expensive option than SANS. In this system, hard- **disk** storage **drives** are assigned an independent IP address and connected via an Ethernet card to a LAN...

DESCRIPTORS: ... **Storage area networks**;

11/3,K/15 (Item 2 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

1154155 H.W. WILSON RECORD NUMBER: BAST94022726
IDE takes off
Bryan, John;
Byte v. 19 (Mar. '94) p. 97-100+
DOCUMENT TYPE: Feature Article ISSN: 0360-5280

ABSTRACT: Part of a special **section** on computer data **storage** technologies. IDE (**Integrated** Drive Electronics) is the most popular disk interface in the PC environment because it is...

...example, it currently supports 2 drives, and without some kind of proprietary modification, those 2 **drives** must be magnetic **disks** . This requirement is not acceptable in today's high-end multimedia systems, which need to...

...ROM products. IDE is also restricted by the size of the disks that can be **attached** to it and by the data transfer rates that can be extracted from it. Western...

DESCRIPTORS: Hard **disk** **drives** ; ;

11/3,K/16 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09471340
Dell launches new SAN storage...
SINGAPORE: SANS STORAGE DEVICE FROM DELL
Business Times (XBA) 26 Feb 2001 BizIT p.13
Language: ENGLISH

... its PowerVault 660F here in Singapore. Priced from S\$ 29,000 onwards, the mid-range **storage** device for **storage area** networks (SANS). The single 3U (5.25-inch) rack-mount device which comes with 14 **disks** **drives** , as well as fibre channels array technology that lets users **integrate** up

to 20 servers and manage up to 70 TB of information in one SAN. *...

11/3,K/17 (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09374363
Seagate e-biz strategy takes off
SINGAPORE: SEAGATE TO OPEN E-BUSINESS OFFICE
Asia Computer Weekly (XCF) 18-24 Sep 2000 p.28
Language: ENGLISH

Singapore may be housing an e-business <electronic business> office of <US disk drive producer> Seagate Technology (Seagate) in October 2000. The move came under part of Seagate's...

... The extended business coverage of Seagate will encompass Web-based storage services, consumer electronics, networked **attached storage** (NAS) and **storage area** networks (SAN) systems. Should the storage services unit of Seagate in Asia is set up...

COUNTRY: Singapore United States

11/3,K/18 (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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09225167
Sony unit to offer set-top box with hard **disk drive**
US/JAPAN: SONY TO UNVEIL SET-TOP BOX IN US
Nikkei Net Interactive (NW) 7 Jan 2000 TheNikkei industrial Daily, p.
Language: ENGLISH

Sony unit to offer set-top box with hard **disk drive**

... Electronics Inc, the US-based unit of Sony Corp will be managing the set-top **box** in US. **Storage** of digital broadcasted video data is made possible using the set-top box. Apart from...

COUNTRY: Japan United States

11/3,K/19 (Item 4 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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06220647
Disk drive firms work towards higher capacity
SINGAPORE: HP LAUNCHED 8.7 GB DRIVE
The Straits Times (XBB) 30 October 1995 P. 50
Language: ENGLISH

Disk drive firms work towards higher capacity

... Hewlett Packard (HP) launched a 8.7 gigabyte (Gb) drive targeted at the high end **disk drive** market. At the same time, the company disclosed that it had increased the **area** density or **storage** capacity on a single disk from 500-600 megabytes (Mb) to 800 Mb storage space...

... drive in the market in 1996. It aims to focus its attention on the desktop **disk drive** market too. A survey by Datquest revealed that demand for high-end **disk drives** will increase from 1.6 mn units in 1995 to 25 mn units by 1999. Demand for **disk drives** will grow at 25% in the Asia-Pacific personal computer industry. Industry estimates showed that...

COUNTRY: Singapore United States

11/3,K/20 (Item 5 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

06204444
Seagate spends US\$400mn to create software arm
EU: SEAGATE SETS UP SOFTWARE ARM
Computer Weekly (CRW) 14 Sep 1995 p.28
Language: ENGLISH

Having made six acquisitions costing US\$400mn, US **disc drive** manufacturer Seagate Technologies has created Seagate Software companies in France, Germany and the UK. The company is keen not only to be in the data **storage area** but also the data management business where it sees good growth potential. With over thirty...

COUNTRY: European Community United States

11/3,K/21 (Item 6 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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06187727
IBm to more than double manufacturing investment in S'pore
SINGAPORE: IBM TO UP INVESTMENTS FOR **DISK DRIVE**
The Straits Times (XBB) 5 Aug. 1995 P.46
Language: ENGLISH

SINGAPORE: IBM TO UP INVESTMENTS FOR **DISK DRIVE**

Mr Ray AbuZayyad, the general manager of the **storage system section** for the International Business Machines (IBM), announced that manufacturing investment in Singapore will be raised...

... 1996. The increase in investment is expected to raise the production of its high-end **disk drive** from 1 mn units per annum by end-1995 to 2.5 mn units per...

... Singapore. Located at Kaki Bukit, the facility will be used to produce its high-end **disk drives**. These high-end **disk drives** are targeted for the large subsystems, mid-range computers and workstation. Initially, the plant in Singapore will manufacture about 50% of the group's high-end **disk drive**. Eventually, the plant will be responsible for the majority of the production of these **disk drives**. IBM projects that some 2 mn units of the high-end **disk drives** would be shipped in 1995.

COUNTRY: Singapore United States

11/3,K/22 (Item 7 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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05940609
Microtest puts **CD -ROM drive** on the network
UK: DEVICE **ATTACHES** CD-ROM TO LAN
Computer Weekly (CRW) 10 Feb 1994 p.25
Language: ENGLISH

Microtest puts **CD -ROM drive** on the network
UK: DEVICE **ATTACHES** CD-ROM TO LAN

Microtest has launched Discport, a device which adds a **CD -ROM drive** to a LAN. At GBP 695, it provides ten end-users with access to the drive which is far cheaper than paying GBP 450 ten times over for a **CD -ROM drive**.

PRODUCT: Local Area Network Equip
COUNTRY: United Kingdom

11/3,K/23 (Item 8 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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05506360
Disc drive distributor
UK - FORMATION OF ELITE
Electronics Weekly (ECW) 16 December 1992 p2
ISSN: 0013-5224

Disc drive distributor

Elite (Pangbourne, UK) is a new concern formed by four former NEC **disc drive** employees to sell 'bare' data storage goods and produce specialised 'boxed' **storage** solutions. It has already reached OEM agreements with Sankyo and Syquest.*

PRODUCT: Storage DevicesHard Disk Drives
COUNTRY: United Kingdom...

11/3,K/24 (Item 9 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

05498198
ELITE STORAGE PRODUCTS RISES FROM ASHES OF NEC's UK **DISK DRIVE** /
UK - ELITE STORAGE PRODUCTS BORN FROM NEC **DISK DRIVE** BUSINESS
Computergram International (CGI) 14 December 1992 p5
ISSN: 0268-716X

ELITE STORAGE PRODUCTS RISES FROM ASHES OF NEC's UK **DISK DRIVE** /
UK - ELITE STORAGE PRODUCTS BORN FROM NEC **DISK DRIVE** BUSINESS

...Storage Products is a new company which has risen out of the NEC's UK **disk drive** division, the remnants of which were disbanded in June 1992. The division sold **disk drives** for personal computers and mainframes, manufactured by NEC in Japan and the Philippines, to the...

... all European sales have been centralised in Germany. The German sales office says it sells **disk drives** in Germany only via distributors and OEM. Elite Storage Products (Reading, UK) was set up...

... sell NEC's products, the firm is choosing to concentrate on assembling add-on customised **boxed storage** products that plug into the SCSI port of IBM-compatible and Apple Macintosh personal computers...

COUNTRY: **United Kingdom...**

11/3,K/25 (Item 10 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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04658532

xxx

US - RICOH HAS OPTICAL **DISK DRIVE** WITH 37MS ACCESS TIME
Computergram International (CGI) 25 November 1991 p1
ISSN: 0268-716X

US - RICOH HAS OPTICAL **DISK DRIVE** WITH 37MS ACCESS TIME

...Altos, CA-based US subsidiary has announced the HyperSpace 5.25-in 650Mb magneto-optical **disk drive**. At 3,600rpm, which the company claims is the fastest media spin rate among optical **disk drives**, the new rewritable optical drive has a data transfer rate of 1Mbps, an average seek ...

... access time of 37ms. HyperSpace is available now to OEM customers, value-added resellers, systems **integrators** and distributors in production quantities. It can be configured for most stand-alone and networked...

... is aimed at imaging, publishing, CAD/CAM and scientific computing, as well as the network **storage** or local **area net** market.

COUNTRY: **United States...**

11/3,K/26 (Item 11 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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04420029

CONNER BUYS VISCOUS DISK TECHNOLOGY TO UP CAPACITY
UA - CONNER BUYS VISCOUS DISK TECHNOLOGY TO UP CAPACITY
Computergram International (CGI) 29 July 1991 p1
ISSN: 0268-716X

San Jose-based Conner Peripherals is hoping to achieve a big increase in **areal storage** density on its **disk drives** by applying an emerging technology developed a development stage company called VISqUS, which Conner has...

COUNTRY: **United States...**

11/3,K/27 (Item 12 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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03014154

KODAK BIS LAUNCHES KIMS 4000

UK - KODAK BIS LAUNCHES KIMS 4000

Business Equipment Digest (BED) 0 October 1989 p81

ISSN: 0007-6708

... linked to KIMS 4000. KIMS 400 consists of a PC with high resolution screen, optical **disk drive**, high resolution scanner and laser printer. Documents are scanned into the system and stored...

... on an optical disk may be increased by the use of 'disk farms' with multiple **disk drives**, as well as an optical disk 'juke box', called an Automatic Disk Library, which will...

PRODUCT: Local Area Network Equip

COUNTRY: United Kingdom...

11/3,K/28 (Item 13 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

01322488

YANKEE GROUP SAYS DEC USERS CONCERNED WITH DATA STORAGE

US - YANKEE GROUP SAYS DEC USERS CONCERNED WITH DATA STORAGE

Computing (CNG) 17 September 1987 p1

... to perceive micros as terminals. Users also regard DEC as being weak in the data **storage area**, although new introductions of tape systems and **disc drives** have to some extent filled the gap.

COUNTRY: Earth - Planet...

United States...

11/3,K/29 (Item 14 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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00674426

SONY BROADCAST DISPLAYS VDR-1000/DVPC-1000

EUROPE - SONY BROADCAST DISPLAYS VDR-1000/DVPC-1000

Screen Digest (SND) 0 October 1986 p211

... of sizes of cassettes and will cost around #100k. Abakas displayed its A64 PL Digital **Disc Recorder** costing about #140k, which functions as two digital VCRs in one box with **storage** capacity of 30 seconds. Also at IBC was a competitor to the A64, Harry Quantel, a real-time random-access digital **disc recorder** with 4-speed Winchester discs storing 80 seconds of digitised video frames.*

COUNTRY: United Kingdom...

15/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

5325068 INSPEC Abstract Number: C9609-5310-002

Title: Design issues and caching strategies for CD-ROM based multimedia storage

Author(s): Shastri, V.; Rajaraman, V.; Jamadagni, H.S.; Rangan, P.V.; Sampath-Kumar, S.

Author Affiliation: Centre for Electron. Design Technol., Indian Inst. of Sci., Bangalore, India

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.2667 p.30-47

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 1996 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(1996)2667L.30:DICS;1-K

Material Identity Number: C574-96130

U.S. Copyright Clearance Center Code: 0 8194 2041 7/96/\$6.00

Conference Title: Multimedia Computing and Networking 1996

Conference Sponsor: SPIE; Soc. Imaging Sci. & Technol

Conference Date: 29-31 Jan. 1996 Conference Location: San Jose, CA, USA

Language: English

Subfile: C

Copyright 1996, IEE

...Abstract: for a large variety of multimedia applications (targeted for a single-user environment) like encyclopedias, **magazines** and games. With **CD** -ROM capacities up to 3GB being available in the near future, they will form an **integral** part of Video On Demand (VoD) servers to store full-length movies and multimedia. In...

... management in this scenario. We adapt the C-SCAN (Circular SCAN) algorithm to suit the **CD** -ROM **drive** characteristics and prove that it is optimal in terms of buffer size management. We provide...

15/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

03477660 INSPEC Abstract Number: D89002473

Title: CD -ROM comes of age (electronic magazine publishing)

Journal: The Publisher vol.7, no.7 p.18

Publication Date: July 1989 Country of Publication: UK

CODEN: PUBLE9 ISSN: 0269-3003

Language: English

Subfile: D

Title: CD -ROM comes of age (electronic magazine publishing)

Abstract: A combination of imaginative publishing ideas and advancing technology is bringing **CD** **magazines** closer. The problem has been a degree of techno-fear amongst businessmen and the low take-up of **CD** -ROM **drives** by computer users. Dynabook is a very stylish portable PC with an **integral** **CD** -ROM **drive** and a touch sensitive screen so that users just point to what they want to...

...Identifiers: **CD** -ROM **drives** ;

15/3,K/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02399329 INSPEC Abstract Number: D85000754

Title: Our buying headache (PC purchase)

Author(s): Angel, J.

Journal: PC Business World vol.1, no.2 p.20

Publication Date: Dec. 1984 Country of Publication: UK

CODEN: PCBWEI ISSN: 2666-8483

Language: English

Subfile: D

...Abstract: World have purchased an IBM PC to compare hardware and test software for their computer **magazine** . Their requirements were clear. Two **disk drives** were a must and they needed enough memory to use the many **integrated** software programs that are around. The magazine eventually decided on a larger dealer to purchase...

15/3,K/4 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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09208591

Sony broadens media remit for in-car stereos

UK: SONY TAPS NEW MEDIA CHANNELS

Precision Marketing (ZCZ) 22 Nov 1999 p. 5

Language: ENGLISH

... UK. The Japanese electronics group's new campaign in the UK press and specialist car **magazines** will offer buyers of its in-car **CD player** free installation and insurance. Sony, which focused exclusively on point-of-sale material in the...

COUNTRY: United Kingdom

15/3,K/5 (Item 2 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

06626412

Digital Science CD Library 54

ASIA: NEW DIGITAL SCIENCE CD LIBRARY FROM KODAK

Channel Asia (AHT) Apr 1998 P.15

Language: ENGLISH

...Library 54 comes equipped with one/two drives, in addition to three/four 18-slot **CD magazines** . The product is upgradeable with rewritable **CD drives** and digital versatile **disk** (DVDs).

COUNTRY: Southeast AsiaEastern Asia United States

15/3,K/6 (Item 3 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06536638

Eidos risks launch of CD-Rom title

UK/US: EIDOS PLANS CD -ROM MAGAZINE

Marketing Week (MW) 16 Oct 1997 p. 29

Language: ENGLISH

UK/US: EIDOS PLANS CD -ROM MAGAZINE

...by Eidos priced at GBt 6.95. The games software firm opted to offer the CD -Rom football **magazine** in the US first due to the large proportion of PCs there incorporating **CD drives** coupled with a large soccer fan base. Soccer Unlimited will be offered via Eidoscope, the...

COUNTRY: United Kingdom

15/3,K/7 (Item 4 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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04840253

Device doubles online capacity

UK - IS SOLUTIONS LAUNCHES OPTICAL STORAGE DEVICE

What's New In Computing (WNC) 0 January 1992 p56

... Rapidchanger, optical storage device, which offers twice the online capacity of conventional jukeboxes and optical **disc drives**. Features include dual head technology; five **disk** portable **magazine**; and a maximum of 28 Gbytes storage capacity.

COUNTRY: United Kingdom...

15/3,K/8 (Item 5 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

03448321

PHILIPS BATTLES WITH WHICH? MAGAZINE

UK - PHILIPS BATTLES WITH WHICH? MAGAZINE

Electrical & Radio Trading (ERT) 26 April 1990 p4

ISSN: 0013-4228

A report on the reliability of **CD players** in Which? **magazine**'s April issue has resulted in a minor battle between the magazine and Philips whose ...

... CD160, priced at GBP160, had problems with distortion, vs a 14% average for other manufacturers' **CD players**.

COUNTRY: United Kingdom...

15/3,K/9 (Item 6 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

(c) 2002 The Gale Group. All rts. reserv.

03000396

PIONEER VIDEOODISC **PLAYER** TESTED BY **CD** **VIDEO**

UK - PIONEER VIDEOODISC **PLAYER** TESTED BY **CD** **VIDEO**

TV Digest (TVD) 16 October 1989 p13

PIONEER VIDEOODISC **PLAYER** TESTED BY **CD** **VIDEO**
UK - PIONEER VIDEOODISC **PLAYER** TESTED BY **CD** **VIDEO**

CD Video (UK), a **magazine**, has tested Pioneer's PAL videodisc **player** which plays NTSC **discs** through PAL TV sets, and found it performs excellently. The **magazine** believes it is impossible to copy NTSC **disc** onto tape and therefore there is no chance of illegal recordings being made. Also, there...

COUNTRY: **United Kingdom...**

15/3,K/10 (Item 7 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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02664356
GOODMANS INTRODUCES MULTI-PLAY CD PLAYER
UK - **GOODMANS INTRODUCES MULTI-PLAY CD PLAYER**
Electrical & Radio Trading (ERT) 27 April 1989 p25
ISSN: 0013-4228

GOODMANS INTRODUCES MULTI-PLAY CD PLAYER
UK - **GOODMANS INTRODUCES MULTI-PLAY CD PLAYER**

Goodmans Loudspeakers has introduced its GCDC580, a multi-play **CD player** which features an **integral** cassette deck with autoreverse, Dolby B and C NR and full function i-r remote. The player takes 3 and 5 in singles and utilises JVC's six **disk** transport mechanism and **magazines**.

COUNTRY: **United Kingdom...**

15/3,K/11 (Item 8 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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02622308
WHICH MAGAZINE NAMES BEST BUY CD PLAYER
UK - **WHICH MAGAZINE NAMES BEST BUY CD PLAYER**
Electrical & Radio Trading (ERT) 13 April 1989 p3
ISSN: 0013-4228

WHICH MAGAZINE NAMES BEST BUY CD PLAYER
UK - **WHICH MAGAZINE NAMES BEST BUY CD PLAYER**

...a multidisk model it picked the CDPC50 from Sony costing GBP250. A total of 17 **CD players** were examined. The **magazine** also selected the Panasonic MCE43N upright vacuum cleaner at GBP110, the Hoover Junior U1104 at...

COUNTRY: **United Kingdom...**

15/3,K/12 (Item 9 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

02048191

RESEARCH: RISING SALES OF PERIPHERALS LEAD BY OPTICAL DRIVES
US - RESEARCH: RISING SALES OF PERIPHERALS LEAD BY OPTICAL DRIVES
Electronics (ECS) 0 July 1988 p89
ISSN: 0883-4989

...and Freeman Associates of Santa Barbara is predicting growth of only 47%. Electronics believes magnetic **disc drive** sales will rise 30% to USDlr5.2 bil in 1988. Electronics **magazine** also predicts a fall in floppy **disc drives** sales to USDlr1.2 bil from USDlr1.3 bil in 1987. Sales of 0.25in...

COUNTRY: United States...

15/3,K/13 (Item 10 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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01934320

PREVIEW OF CONSUMER ELECTRONICS SHOW
US - PREVIEW OF CONSUMER ELECTRONICS SHOW
Journal of the Electronics Industry (JEI) 0 June 1988 p86
ISSN: 0385-4515

... palm-sized colour video camera, the CCD-G1. Pioneer is exhibiting its LD-W1 combination **disc player**, which can play all consumer audio and video discs from 3in CDs to 12in laserdiscs...

... and a 99 programme index system. Sansui is to exhibit the world's first twin **magazine CD** Changer, which can take 12 CDs, all of which can be programmed. Panasonic is to...

COUNTRY: Earth - Planet...
United States...

21/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

6891403

Title: Quantum's new software monitors remote facilities

Author(s): Kern, A.
Journal: Security vol.38, no.2 p.34-6
Publisher: Cahners Publishing,
Publication Date: Feb. 2001 Country of Publication: USA
CODEN: SECUEU ISSN: 0890-8826
SICI: 0890-8826(200102)38:2L.34:QSMR;1-N
Material Identity Number: K674-2001-004
Language: English
Subfile: D
Copyright 2001, IEE

Abstract: Quantum Corporation supplies hard **disk drives**, tape **drives**, network **attached storage** appliances, hard **disk drive** applications for consumer electronics, and DLTape automation systems. Quantum security specialist George Teixeira needed a...

21/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02970028 INSPEC Abstract Number: B87063439
Title: Timelag: digital memoryscope seizes single events
Journal: Elektronik Praxis vol.22, no.4 p.160-1
Publication Date: April 1987 Country of Publication: West Germany
CODEN: EKPxAM ISSN: 0341-5783
Language: German
Subfile: B

Abstract: The Vuko VKS460 contains an **integrated disc drive** for data **storage** in MS-DOS format. Each of the four input channels has an 8 KByte capacity...

21/3,K/3 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

02326147 INSPEC Abstract Number: A84097221, B84055303, C84043728
Title: Using the TECRON TEF System 10 acoustic analyzer
Author(s): Bartlett, B.
Journal: DB, The Sound Engineering Magazine vol.18, no.4 p.34-6
Publication Date: May 1984 Country of Publication: USA
CODEN: DBSEDB ISSN: 0011-7145
Language: English
Subfile: A B C

Abstract: room acoustics and sound systems. It includes a keyboard, built-in monitor screen, and two **built - in disk drives** for data **storage** and operating software. The TEF System 10 generates a frequency sweep into a sound system...

21/3,K/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01224715 INSPEC Abstract Number: C78020680

Title: Scan read

Author(s): Schmitt, S.A.

Author Affiliation: IBM Corp., Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.20, no.5 p.1909-12

Publication Date: Oct. 1977 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English

Subfile: C

...Abstract: function of a scan read operation in a computer system is to transfer data from **storage** to a **disk storage drive attachment** while data is being read from the disk storage drive. An arrangement of scan circuits...

21/3,K/5 (Item 5 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01159027 INSPEC Abstract Number: C78005767

Title: Sector pulse check circuit

Author(s): Dawson, H.; McRoberts, R.S.; Schmitt, S.A.

Author Affiliation: IBM, Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.19, no.11 p.4349-51

Publication Date: April 1977 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English

Subfile: C

...Abstract: disk storage drive, sector pulses are read from the file media and sent to the **attachment** which connects the **disk storage drive** within a computer system. The file media contains a plurality of concentric tracks and each...

21/3,K/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2005 Institution of Electrical Engineers. All rts. reserv.

01146759 INSPEC Abstract Number: C78003564

Title: Stored interrupts

Author(s): Clough, J.W.; Ovrebo, J.D.

Author Affiliation: IBM, Armonk, NY, USA

Journal: IBM Technical Disclosure Bulletin vol.19, no.11 p.4357

Publication Date: April 1977 Country of Publication: USA

CODEN: IBMTAA ISSN: 0018-8689

Language: English

Subfile: C

Abstract: A circuit is provided to store a second interrupt request occurring in the **attachment** for attaching a **disk storage drive** to a computer system when a first interrupt request is still being serviced.

21/3,K/7 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

04392926 E.I. No: EIP96043152904

Title: Data storage IC technology

Author: Kovacs, Janos; Kroesen, Ronald

Corporate Source: Analog Devices Inc, Wilmington, MA, USA

Conference Title: Proceedings of the 1996 41st IEEE Computer Society International Conference, COMPCON'96

Conference Location: Santa Clara, CA, USA Conference Date: 19960225-19960228

E.I. Conference No.: 44593

Source: Digest of Papers - COMPCON - IEEE Computer Society International Conference 1996. IEEE, Piscataway, NJ, USA, 96CB35911. p 402-406

Publication Year: 1996

CODEN: DCSIDU ISSN: 1063-6390

Language: English

Identifiers: Read channel processors; Data storage integrated circuits; Disk drives

21/3,K/8 (Item 2 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

(c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

02680227 E.I. Monthly No: EI8812119430

Title: SPECTRUM ANALYZERS: NEW SPECTRUM ANALYZERS RIVAL STANDALONE INSTRUMENTS FOR MEASUREMENT OF POWER AND FREQUENCY.

Author: Anon

Source: Evaluation Engineering v 27 n 8 Aug 1988 p 84,86-89

Publication Year: 1988

CODEN: EVENAE ISSN: 0014-3316

Language: English

...Abstract: modern instruments, which eliminates the need for many separate units. The increased use of large, built - in memory; disk drives for storage ; and on-board computing is also reducing the need for external computers in many applications.

21/3,K/9 (Item 3 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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01631543 E.I. Monthly No: EIM8402-015276

Title: VLSI IN MAGNETIC DISK STORAGE.

Author: Brand, J. R.

Corporate Source: Magnetic Peripherals Inc, Minneapolis, Minn, USA

Conference Title: Proceedings - IEEE International Conference on Computer Design: VLSI in Computers.

Conference Location: Port Chester, NY, USA Conference Date: 19831031

E.I. Conference No.: 03454

Source: Publ by IEEE, New York, NY, USA. Available from IEEE Service Cent (Cat n 83CH1935-6), Piscataway, NJ, USA p 325-327

Publication Year: 1983

ISBN: 0-8186-0480-8

Language: English

Identifiers: VERY-LARGE-SCALE INTEGRATION; MAGNETIC DISK STORAGE ; INTEGRATION DENSITY; DISK DRIVES ; VLSI-6000 CMOS GATE ARRAY; ANALOG

MASTER CHIP ARRAY

21/3,K/10 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2005 FIZ TECHNIK. All rts. reserv.

00828364 E94110474273
Erstmals 420 MByte in 1,8 Zoll
(For the first time an 1.8-inches-drive with 420 MByte)
anonym
Markt und Technik, v17, n45, pp116, 1994
Document type: Short journal article Language: German
Record type: Abstract
ISSN: 0344-8843

DESCRIPTORS: HARD DISCS ; HARD DISC DRIVES ; STORAGE CAPABILITIES;
MULTICHIP INTEGRATED CIRCUITS; PRODUCT INFORMATION; NOTEBOOK COMPUTERS

21/3,K/11 (Item 2 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
(c) 2005 FIZ TECHNIK. All rts. reserv.

00718519 I93092539309
The changing nature of disk controllers
(Ueber die veraenderten Anforderungen an Plattencontroller)
Hospodor, AD; Hoagland, AS
Inst. for Inf. Storage Technol., Santa Clara Univ., CA, USA
Proceedings of the IEEE, v81, n4, pp586-594, 1993
Document type: journal article Language: English
Record type: Abstract
ISSN: 0018-9219

IDENTIFIERS: DRIVE ATTACHMENT ; DISK CONTROLLERS; DISK DRIVE
STORAGE DEVICES; MAGNETIC DISK STORAGE DENSITY; SINGLE BOARD
CONTROLLER; HARD DISK DRIVE; Magnetplattenspeicher; Plattencontroller

21/3,K/12 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2005 The HW Wilson Co. All rts. reserv.

1173453 H.W. WILSON RECORD NUMBER: BAST94042060
Great choice: the zoo or the "priesthood"
AUGMENTED TITLE: Analog and Mixed-Signal Design Conference, San Jose, CA,
July 12-14, 1994; preview
Ohr, Stephan;
Computer Design v. 33 (June '94) p. 132+
DOCUMENT TYPE: Feature Article ISSN: 0010-4566

...ABSTRACT: specific integrated circuit design and electronic design
automation tools; portable and low-voltage applications; and integrated
circuits for disk drive and storage applications.

21/3,K/13 (Item 1 from file: 144)
DIALOG(R)File 144:Pascal
(c) 2005 INIST/CNRS. All rts. reserv.

14982035 PASCAL No.: 01-0135829
Design considerations and implementation of a programmable high-frequency
continuous-time filter and variable-gain amplifier in submicrometer CMOS
GOPINATHAN V; TARSIA M; CHOI D
Texas Instruments Inc, Edison NJ, United States
Journal: IEEE Journal of Solid-State Circuits, 1999, 34 (12) 1698-1707
Language: English

...English Descriptors: filters; Hard disk drive read channels; Application
; Low pass filters; Power amplifiers; Gain control; Electric **drives** ;
Hard **disk storage** ; CMOS **integrated** circuits; Theory

21/3,K/14 (Item 1 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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06671133
APPLE RESHAPES RETAIL PLAN FOR IMAC DEBUT.
NEW ZEALAND: NEW IMAC PCS TO ARRIVE LATER
New Zealand Herald (XAV) 11 Aug 1998 P.1
Language: ENGLISH

... iMac PC includes the following features: - 233MHz G3 Power PC processor
and 32MB memory - 4GB **disk storage** and **CD -ROM drive** - **built - in**
56Kbps modem - 15-inch monitor

21/3,K/15 (Item 2 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

04854562
Irvine plant busy though Conner's profits fall 29%
UK/US - CONNER PERIPHERALS SEES PROFITS FALL, BUT UK PLANT BUSY
Scotsman (SN) 24 January 1992 p18

PRODUCT: **Storage** Devices

21/3,K/16 (Item 3 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

04840212
PCs have built in cd rom drives
UK - PHILIPS LAUNCHES PCS WITH CD ROM DRIVES
What's New In Computing (WNC) 0 January 1992 p12

Philips has launched the PCD 215 and 315 PCs, which feature **built - in**
CD ROM drives , 40Mbytes **storage** , and come with Geoworks Ensemble gui
and mouse, together with five CD ROM discs which...

21/3,K/17 (Item 4 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
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04008125
NEW JUKE-BOX FROM DYNATEK AUTOMATION SYSTEMS

FRANCE - NEW JUKE-BOX FROM DYNATEK AUTOMATION SYSTEMS
Memoires Optiques (MO) 0 November 1990 p14
ISSN: 0990-7939
Language: French

... 5.25in magneto-optical or WORM digital optical disks onto the OEM market. Capable of **integrating** various digital optical **disk drives**, the juke- **box** has a capacity of 16 disks with two drives and 20 disks with one drive.

21/3,K/18 (Item 5 from file: 583)
DIALOG(R)File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

03700468
LASER MAGNETIC FORMS OEM DEAL WITH DYNATEK
US - LASER MAGNETIC FORMS OEM DEAL WITH DYNATEK
Computer Systems News (COS) 20 August 1990 p27
ISSN: 0164-9981

... Storage International has awarded a US\$1r2 mil OEM contract to DynaTek Automation Systems for the **integration** of its optical **disk drives** in **storage** subsystems. Laser is a subsidiary of NV Philips (Netherlands). Its LaserDrive 500 range of reusable...

26/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

03735547 INSPEC Abstract Number: B90072217
Title: Optical discs: the new wave in commercial insertion
Author(s): Sell, G.
Journal: CED vol.16, no.7 p.48, 50, 52, 54-5
Publication Date: June 1990 Country of Publication: USA
CODEN: CCEDE3 ISSN: 0191-5428
Language: English
Subfile: B

...Abstract: complexity of operation and reduced maintenance costs. Now comes new insertion technology, based on optical **disc players** and **recorders**, similar to consumer-grade videodisc equipment, which offers high quality video and audio. Examples of this emerging equipment are being **integrated** and shown by several vendors.

...Descriptors: optical disc storage ;
...Identifiers: optical disc players ;

26/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2005 Institution of Electrical Engineers. All rts. reserv.

03280535 INSPEC Abstract Number: B89002752, C89007505
Title: Time base error in two-headed videodisc player introduced by recorded asymmetry (and influence on stored medical images)
Author(s): Isailovic, J.
Author Affiliation: Dept. of Electr. Eng., California State Univ., Long Beach, CA, USA
Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.914, pt.B p.1128-34
Publication Date: 1988 Country of Publication: USA
CODEN: PSISDG ISSN: 0277-786X
Conference Title: Medical Imaging II
Conference Sponsor: SPIE
Conference Date: 31 Jan.-5 Feb. 1988 Conference Location: Newport Beach, CA, USA
Language: English
Subfile: B C

Title: Time base error in two-headed videodisc player introduced by recorded asymmetry (and influence on stored medical images)
...Abstract: on plastic and finally, plays the replicas on home television screens by means of a **disc player attachment**. A new problem is a time-based error caused by recorded asymmetry, which is discussed...
...Descriptors: optical disc storage

26/3,K/3 (Item 1 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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07214833 E.I. No: EIP05028782284
Title: Integrated optical unit for MD (Mini Disc) pickups
Author: Miyake, Tomoyuki; Ueyama, Tetsuo; Numata, Tomiyuki; Hirano, Kenji ; Ogawa, Masaru; Nakata, Yasuo

Source: Shapu Giho/Sharp Technical Journal n 90 December 2004. p 46-50
Publication Year: 2004
CODEN: STEJD9 ISSN: 0285-0362
Language: Japanese

Title: Integrated optical unit for MD (Mini Disc) pickups

Abstract: MD (Mini Disc) is the most popular music **recorder** and portable music **player** in Japan. But other portable music **players** with HDDs (Hard Disk Drives) or silicon devices have become popular. In this situation, SONY announced the 1GB "Hi-MD" **disc** and portable **recorder** that incorporate DWDD (Domain Wall Displacement Detection) technology, leading to a maximum recording time of up to 45 hours for music data. In this report, we propose the new **integrated** optical unit for MD pickups using polarized holograms, and PS-DPP (Phase-Shift Differential Push-Pull) method for RES (Radial Error Signal) detection. We develop a miniaturized **integrated** unit for MD pickups that can read two different types of discs, owing to two...

Descriptors: ***Integrate**d optics; Sound recording; Hard disk **storage**; Portable equipment; Data reduction; Polarization

Identifiers: Hard Disk Drives (HDD); Phase-Shift Differential Push-Pull; Radial Error Signals (RES); Track pitch

26/3,K/4 (Item 1 from file: 583)
DIALOG(R) File 583:Gale Group Globalbase(TM)
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06487823
Home recorder a multi-million blow to CDs
UK: PHILIPS TO LAUNCH CD RECORDER IN AUTUMN 97
Guardian (GN) 26 Jun 1997 p.5
Language: ENGLISH

UK: PHILIPS TO LAUNCH CD RECORDER IN AUTUMN 97

... manufacturer of consumer electronics and household goods> has announced that it is to launch its **CD recorder** in the UK and the rest of Europe in the autumn of 1997, and in the US and Far East in 1998. The **CD recorder** will be able to record radio, records, tapes, voices and other CDs with CD quality...

... quickly. However, there has been opposition to the new equipment as the International Federation of **Phonographic** Industries claims that in the UK alone it already loses some GB£ 100mn per year...

PRODUCT: Compact Disc Players
COUNTRY: Netherlands United Kingdom

26/3,K/5 (Item 2 from file: 583)
DIALOG(R) File 583:Gale Group Globalbase(TM)
(c) 2002 The Gale Group. All rts. reserv.

06130761
EMI topples PolyGram as UK soundcarrier market leader in 1994
UK: GROWTH IN SOUNDCARRIER MARKET
Music & Copyright (ZCS) 15 Mar 1995 p. 8-10
Language: ENGLISH

... 17% to GB£ 917.5mn in 1994 compared with the year before, according to

British **Phonographic** Industry (BPI) figures. CD shipments rose by 25% to 116.4mn with this format taking a 66% share of total album shipments. Fifty six percent of households now own a **CD player**, 13% up on 1993. In terms of market share, EMI was the leading player with...

COMPANY: MUSIC VIDEO CLUB; BMG; POLYGRAM; VIRGIN; EMI; BRITISH
PHONOGRAPHIC INDUSTRY

PRODUCT: Optical **Storage**
COUNTRY: **United** Kingdom